

CHEMFACES CATALOG

By axxo chemicals and services co.,ltd



@axsochem

10/13 Krungthepkritha 7, Huamak, Bangkapi, Bangkok 10240

02-3469239

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www.axso.co.th

Separation and Purification

ChemFaces is a professional high-purity natural products manufacturer, Our products are sold to research institutes, university laboratories, and research and development departments of enterprises and other scientific research units all of the world. Natural compounds have good biological activity, the scientists and scientific researchers use ChemFaces products found that most of the products have a very good research value and obtained very good scientific research results. ChemFaces updates its product inventory every month, mainly with new additions and new batches. Because our products are unique for a long time. So we hope that our newly developed products can help the scientists and scientific researchers around the world. For more information please refer to ChemFaces' official website (www.chemfaces.com).



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Our Services

- Construct high-quality natural product library for drug research and development. More than 4000 compounds are available, many of them are our unique products.
- Provide reference substances and active components of Traditional Chinese Medicine.
- Provide more products of inhibitors in addition to a variety of screening libraries.
- Provide isolation and structure determination of natural products.
- Contract research, contract manufacture and process development services from lab scale, pilot scale to commercial scale.

Quality & Validation

ChemFaces Natural Products pay careful attention to the purity and stability our products. We can provide the chemical test data by NMR, LC-MS, and HPLC. If you are in any way unsatisfied with the quality of our products, we will unconditionally refund or replace the products in question.

Tech Support

ChemFaces helps our customers use the products to their full potential. Our team is dedicated to customer satisfaction and you can expect helpful advice on all aspects of our products when you Contact Us. (service@chemfaces.com)

ChemFaces is a professional high-purity natural products manufacturer.

Product Intended Use

1. Reference standards
2. Pharmacological research
3. Inhibitors



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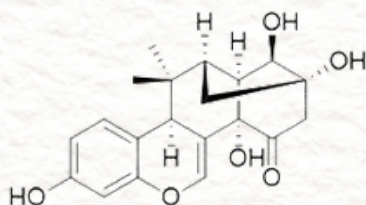
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Pueraria mirifica/ White kwao krua



Miroestrol



Ref: www.natureagropduct.com

CAS No.	2618-41-9	Purity :	>=98%
Catalog No.	CFN91612	Type of Compound:	Diterpenoids
Molecular Formula:	C ₂₀ H ₂₂ O ₆	Physical Desc.:	Powder
Molecular Weight:	358.39 g/mol	Source:	The herbs of Pueraria mirifica
Solvent:	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price:	Inquiry

Biological Activity

Description: Miroestrol is a highly active phytoestrogen. Miroestrol can produce mammogenic effect. Miroestrol exhibits bone loss prevention and neuroprotective in ovariectomized mice. Miroestrol also can reduce cancer risk. Miroestrol Description

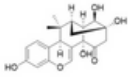
Source: The herbs of Pueraria mirifica

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months (2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

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CERTIFICATE OF ANALYSIS							
Miroestrol							
[Catalog No.] CFN91612							
[CAS No.] 2618-41-9							
[Purity] >=98%							
[M.F.] C ₂₀ H ₂₂ O ₆							
[Physical Description] Powder							
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.							
[Weight] 10mg							
[Lot No.] CFS202101							
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)							
[Intended Use] For laboratory use only							
[Shelf Life] 2 years							
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">[Chemical Structure]</div>  </div>							
[Characterization Data Summary]							
<table border="1"> <thead> <tr> <th>Analytical Test</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Identification by NMR</td> <td>Consistent with the above structure</td> </tr> <tr> <td>Purity tested</td> <td>>=98%</td> </tr> </tbody> </table>	Analytical Test	Results	Identification by NMR	Consistent with the above structure	Purity tested	>=98%	
Analytical Test	Results						
Identification by NMR	Consistent with the above structure						
Purity tested	>=98%						
Authorized Signature:							
Date:							
www.chemfaces.com <small>No. 81 Chongqing North Rd., Wuxue Economic and Technological Development Zone, Wuxue, Hubei 430501, PRC Email: manager@chemfaces.com / Tech. service@chemfaces.com / Tel: 0086-27-84237463</small>							



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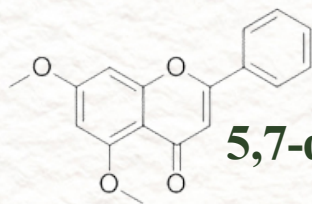
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Kaempferia parviflora; KP



5,7-dimethoxyflavone/ Chrysin dimethylether



Ref: www.hanumanbrand.com

CAS No.	21392-57-4	Purity	>=98%
Catalog No.	CFN90896	Type of Compound	Flavonoids
Molecular Formula	C ₁₇ H ₁₄ O ₄	Physical Desc.	Powder
Molecular Weight	282.3 g/mol	Source	The herbs of Pueraria mirifica
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Chrysin dimethylether shows moderate activity against Trypanosoma brucei, and the IC50s less than 5.0 microg/ml.

Targets: Antifection Chrysin dimethylether Description

Source: The herbs of Piper methysticum Forst.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

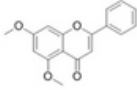
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CERTIFICATE OF ANALYSIS
Chrysin dimethylether

[Catalog No.] CFN90896
[CAS No.] 21392-57-4
[Purity] >=98%
[M.F] C₁₇H₁₄O₄
[Physical Description] Powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 10mg
[Lot No.] CFS202201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H-NMR, HPLC	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:
Date:



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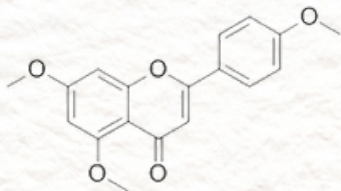
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Kaempferia parviflora; KP



Ref: www.hanumanbrand.com

5,7,4'-trimethoxyflavone/ Trimethylapigenin

CAS No.	5631-70-9	Purity	≥98%
Catalog No.	CFN91890	Type of Compound	Flavonoids
Molecular Formula	C ₁₈ H ₁₆ O ₅	Physical Desc.	Powder
Molecular Weight	312.32 g/mol	Source	The roots of Scutellaria indica L.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Trimethylapigenin has anti-inflammatory activity, it can moderately inhibit production of TNF- α , iNOS mRNA and iNOS protein in a dose-dependent manner. It may be a potential candidate for anti-atrial fibrillation, it can significantly inhibit the atrial potassium currents hKv1.5/I(Kur) and I(KACh).

Targets: Potassium Channel | AChR | TNF- α | NO | NOS | ERK | JNK | IkB | MAPK | IKK
Trimethylapigenin Description

Source: The roots of Scutellaria indica L.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

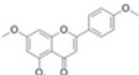
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS
Trimethylapigenin

[Catalog No.] CFN91890
[CAS No.] 5631-70-9
[Purity] ≥98%
[M.F] C₁₈H₁₆O₅
[Physical Description] Powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 10mg
[Lot No.] CF3202201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Identification by 1H-NMR, HPLC	Consistent with the above structure
Purity tested	≥98%

Authorized Signature: _____
Date: _____



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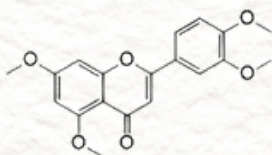
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Kaempferia parviflora; KP



5,7,3',4'-Tetramethoxyflavone



Ref: www.hanumanbrand.com

CAS No.	855-97-0	Purity	>=98%
Catalog No.	CFN91116	Type of Compound	Flavonoids
Molecular Formula	C ₁₉ H ₁₈ O ₆	Physical Desc.	Powder
Molecular Weight	342.3 g/mol	Source	The herbs of Camellia sinensis
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: 5,7,3',4'-Tetramethoxyflavone (TMF) possesses various bioactivities, including antifungal, antimalarial, antimycobacterial, and anti-inflammatory activities; it also exhibits chondroprotective activity by targeting β -catenin signaling in vivo and in vitro. TMF protects chondrocytes from ER stress-induced apoptosis through regulation of the IRE1 α pathway. TMF inhibits the expression of tyrosinase, tyrosine-related protein (TRP)-1, and TRP-2 mRNA, which could be the mechanism of its melanogenesis inhibitory activity.

Targets: β -catenin | IRE1 α | TRP-2 | TRP-1 | Antifection | TNF- α | PGE | PKA | cAMP | JNK | Caspase | Bcl/Bax | Antifection

Source: The herbs of Camellia sinensis

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

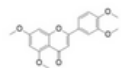
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CERTIFICATE OF ANALYSIS
5,7,3',4'-Tetramethoxyflavone

[Catalog No.] CFN91116
[CAS No.] 855-97-0
[Purity] >=98%
[M.F] C₁₉H₁₈O₆
[Physical Description] Powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 50mg
[Lot No.] CF9202201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H NMR, IR, MS	Consistent with the above structure
Purity assay	>=98%

Authorized Signature: _____
Date: _____



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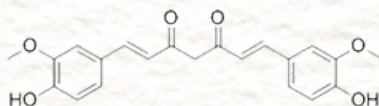
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Curcuma longa L.

Curcumin



Ref: M-Group Article

CAS No.	458-37-7	Purity	>=98%
Catalog No.	CFN98686	Type of Compound	Phenols
Molecular Formula	C ₂₁ H ₂₀ O ₆	Physical Desc.	Orange powder
Molecular Weight	368.4 g/mol	Source	The rhizomatous of Curcuma longa L.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Curcumin is a natural phenolic compound with diverse pharmacologic effects including antitumour, anti-bacteria, anti-fungicidal, anti-edemic, hepatoprotective, anti-inflammatory, antioxidant, antiproliferative and antiangiogenic activities. Curcumin is an inhibitor of p300 histone acetyltransferase ((HATs)) and also shows inhibitory effects on NF-κB and MAPKs. Curcumin application causes markedly fast wound closure with well-formed granulation tissue dominated by fibroblast proliferation, collagen deposition, and complete early regenerated epithelial layer.

Targets: DNA Methyltransferase | TNF-α | IFN-γ | IL Receptor | Nrf2 | HO-1 | GLUT | Caspase | STAT | NF-κB | HDAC | VEGFR | TGF-β/Smad

Source: The rhizomatous of Curcuma longa L.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

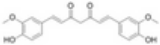
Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

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CERTIFICATE OF ANALYSIS
Curcumin

[Catalog No.] CFN98686
[CAS No.] 458-37-7
[Purity] >=98%
[M.F] C₂₁H₂₀O₆
[Physical Description] Orange powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 20mg
[Lot No.] CFS020202
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years



[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H NMR, IR, MS	Consistent with the above structure
Purity tested	>=98%

Authorized Signature: _____
Date: _____



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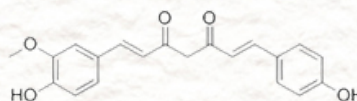
www.axxo.co.th

Curcuma longa L.



Ref: M-Group Article

Demethoxycurcumin



CAS No.	458-37-7	Purity	>=98%
Catalog No.	CFN98686	Type of Compound	Phenols
Molecular Formula	C ₂₁ H ₂₀ O ₆	Physical Desc.	Orange powder
Molecular Weight	368.4 g/mol	Source	The rhizomatous of Curcuma longa L.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Demethoxycurcumin is a potential additive natural product in combination with chemotherapeutic agents in drug-resistant cancers, which has anti-acanthamoebic, anti-proliferative, antimetastatic, anti-inflammatory, antioxidant activities. It inhibited P-glycoprotein-mediated ATP hydrolysis under concentrations of <1 μ M and efficiently inhibited 200 μ M verapamil-stimulated ATPase activity.

Targets: MMP(e.g. TIMP) | COX | TNF- α | NF-kB | EGFR | HSP (e.g. HSP90) | AMPK | ATPase | IL Receptor | P-gp

Source: The herbs of Curcuma longa L.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

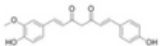
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CERTIFICATE OF ANALYSIS
Demethoxycurcumin

[Catalog No.] CFN98185
[CAS No.] 22808-11-3
[Purity] >=98%
[M.F.] C₂₁H₂₀O₆
[Physical Description] Yellow powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 100mg
[Lot No.] CF2020202
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years



[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by ¹³ C-NMR (101°C)	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:
Date:



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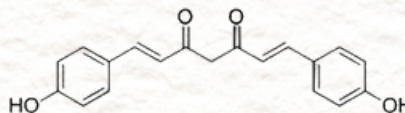
02-3469239

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Curcuma longa L.

Bisdemethoxycurcumin



Ref: M-Group Article

CAS No.	33171-05-0	Purity	>=98%
Catalog No.	CFN99186	Type of Compound	Phenols
Molecular Formula	C ₁₉ H ₁₆ O ₄	Physical Desc.	Yellow powder
Molecular Weight	308.33 g/mol	Source	The rhizomatous of Curcuma longa L.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Bisdemethoxycurcumin is a natural derivative of curcumin with antiulcer, antioxidant, anti-inflammatory and anti-cancer activities, it suppresses MCF-7 cells proliferation by inducing ROS accumulation and modulating senescence-related pathways. Bisdemethoxycurcumin induces apoptosis in activated HSCs, but not in hepatocytes, by impairing cellular energetics and causing a downregulation of cytoprotective proteins, likely through a mechanism that involves CBR2.

Targets: NOS | COX | NF-kB | ROS | MMP(e.g. TIMP) | VEGFR | TNF-α | Akt | ERK | Bcl-2/Bax | p53 | p21

Source: The rhizomes of Curcuma longa L.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

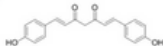
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CERTIFICATE OF ANALYSIS
Bisdemethoxycurcumin

[Catalog No.] CFN99186
[CAS No.] 33171-05-0
[Purity] >=98%
[M.F.] C₁₉H₁₆O₄
[Physical Description] Yellow powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 20mg
[Lot No.] CF202201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years



[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H-NMR, DPLC	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:
Date:



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02-3469239

Sales_chem@axxo.co.th

www.axxo.co.th



Ref: M-Group Article

Plant library of *Curcuma longa* L.

Catalog	Product Name	CAS Number	Manual
CFN98686	Curcumin	458-37-7	PDF
CFN99186	Bisdemethoxycurcumin	33171-05-0	PDF
CFN99540	Dihydrocurcumin	76474-56-1	PDF
CFN99187	Curcumol	4871-97-0	PDF
CFN98133	Germacrone	6902-91-6	PDF
CFN99582	Linalool	78-70-6	PDF
CFN97326	Stigmasterol	83-48-7	PDF
CFN99916	Beta-Sitosterol	83-46-5	PDF
CFN90583	Tetrahydrocurcumin	36062-04-1	PDF
CFN97749	Hexahydrocurcumin	36062-05-2	PDF
CFN90584	Octahydrocurcumin	36062-07-4	PDF
CFN96093	1,5-Bis(4-hydroxy-3-methoxyphenyl)penta-1,4-diene	63644-68-8	PDF
CFN92778	Coronadiene	1145689-64-0	PDF
CFN92779	Zerumin A	176050-48-9	PDF
CFN99185	Demethoxycurcumin	22608-11-3	PDF
CFN97433	5-Hydroxy-1,7-diphenyl-6-hepten-3-one	87095-74-7	PDF
CFN89015	Bisacurone C	127214-86-2	n/a
CFN89231	ar-Turmerone	532-65-0	n/a
CFN96432	Bisacurone	120681-81-4	n/a
CFN96210	1,7-Bis(4-hydroxyphenyl)-3-hydroxy-1,3-heptadien-5-one	207792-17-4	n/a
CFN96744	5"-Methoxyhexahydrocurcumin	138870-96-9	n/a
CFN89244	4-(6-Methyl-4-oxohept-5-en-2-yl)cyclohex-2-en-1-one	170380-68-4	n/a
CFN96841	1-(3,4-Dihydroxyphenyl)-7-(4-hydroxyphenyl)hept-6-en-3-ol	1206788-61-5	n/a



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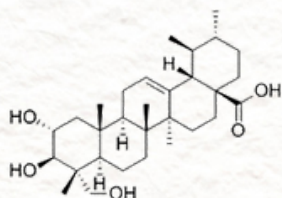
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Centella asiatica L.



Asiatic acid



Ref: medthai.com

CAS No.	464-92-6	Purity	>=98%
Catalog No.	CFN98688	Type of Compound	Triterpenoids
Molecular Formula	C ₃₀ H ₄₈ O ₅	Physical Desc.	Powder
Molecular Weight	488.7 g/mol	Source	The herbs of Centella asiatica.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Asiatic acid shows antihyperlipidemic, anti-inflammatory, antioxidant, and anti-tumorigenesis effects, it inhibits NLRP3 inflammasome activation, NO and COX-2 signals. Asiatic acid inhibits the expression NDR1/2 kinase and promotes the stability of p21WAF1/CIP1 protein through attenuating NDR1/2 dependent phosphorylation of p21WAF1/CIP1 in HepG2 cells.

Targets: TNF- α | IFN- γ | IL Receptor | Caspase | p21 | NOS | NADPH-oxidase | NO | HMG-CoA reductase | COX

Source: The herbs of Centella asiatica.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

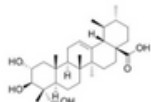
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS
Asiatic acid

[Catalog No.] CFN98688
[CAS No.] 464-92-6
[Purity] 99.8%
[M.F.] C₃₀H₄₈O₅
[Physical Description] Powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 20mg
[Lot No.] CFS202201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Verification by ¹ H-NMR, HPLC	Consistent with the above structure
Purity tested	99.8%

Authorized Signature: _____
Date: _____



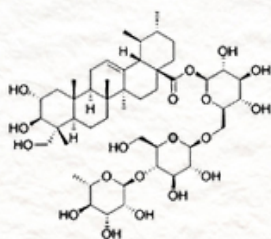
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Centella asiatica L.



Ref: medthai.com

Asiaticoside

CAS No.	16830-15-2	Purity	≥98%
Catalog No.	CFN99912	Type of Compound	Triterpenoids
Molecular Formula	C ₄₈ H ₇₈ O ₁₉	Physical Desc.	White powder
Molecular Weight	959.12 g/mol	Source	The herbs of <i>Centella asiatica</i> (L.) Urban
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Asiaticoside, a biochemical modulator, which has antioxidant, anti-inflammatory, antipyretic, anxiolytic-like, anti-gastric ulcers, hepatoprotective, and antidepressant-like effects, it also exhibits significant wound healing activity in normal as well as delayed healing models. Asiaticoside suppressed collagen expression and TGF- β /Smad signaling through inducing Smad7 and inhibiting TGF- β RI and TGF- β RII in keloid fibroblasts. It and its derivatives can be regarded as reasonable candidates for a therapeutic Alzheimer's disease drug that protects neurons from Abeta toxicity.

Targets: NF- κ B | TNF- α | IL Receptor | p65 | I κ B | TGF- β /Smad | p38MAPK | JNK | ERK | Caspase | COX | PGE | PPAR | NOS | Bcl-2/Bax | Beta Amyloid | IKK

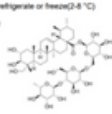
Source: The herbs of *Centella asiatica* (L.) Urban

Solvent: DMSO, Pyridine, Methanol, Ethanol, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS	
Asiaticoside	
[Catalog No.]	CFN99912
[CAS No.]	16830-15-2
[Purity]	99.0%
[M.F.]	C ₄₈ H ₇₈ O ₁₉
[Physical Description]	White powder
[Solvent]	DMSO, Pyridine, Methanol, Ethanol, etc.
[Weight]	20mg
[Lot No.]	CF202202
[Storage]	Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use]	For laboratory use only
[Shelf Life]	2 years
[Chemical Structure]	
[Characterization Data Summary]	
Analytical Test	Results
Identification by ¹ H-NMR, HPLC	Consistent with the above structure
Purity tested	99.0%
Authorized Signature:	
Date:	



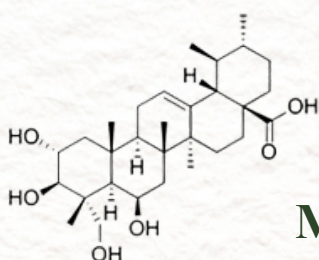
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Centella asiatica L.



Ref: modthai.com

Madecassic acid

CAS No.	18449-41-7	Purity	≥98%
Catalog No.	CFN99914	Type of Compound	Triterpenoids
Molecular Formula	C ₃₀ H ₄₈ O ₆	Physical Desc.	Powder
Molecular Weight	504.70 g/mol	Source	The herbs of <i>Centella asiatica</i> (L.) Urban
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Madecassic acid has anti-diabetic, anti-tumor, wound-healing, and anti-inflammatory properties, it can improve glycemic control and hemostatic imbalance, lower lipid accumulation, and attenuate oxidative and inflammatory stress in diabetic mice. It can protect against hypoxia-induced oxidative stress in retinal microvascular endothelial cells via ROS-mediated endoplasmic reticulum stress. It inhibited the expression of NOS, COX-2, TNF-α, IL-1β, IL-6, and the downregulation of NF-κB activation.

Targets: ROS | NOS | COX | TNF-α | IL Receptor | NF-κB | Caspase | Bcl-2/Bax | p53 | NO | PGE | gp120/CD4 | IkB | IKK

Source: The herbs of *Centella asiatica* (L.) Urban

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months (2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. Take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. For liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. Try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS							
Madecassic acid							
[Catalog No.]	CFN99914						
[CAS No.]	18449-41-7						
[Purity]	98.5%						
[M.F.]	C ₃₀ H ₄₈ O ₆						
[Physical Description]	Powder						
[Solvent]	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.						
[Weight]	25mg						
[Lot No.]	CFN20202						
[Storage]	Protected from air and light, refrigerate or freeze (2-8 °C)						
[Intended Use]	For laboratory use only						
[Shelf Life]	2 years						
[Chemical Structure]							
[Characterization Data Summary]							
<table border="1"> <thead> <tr> <th>Analytical Test</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Identification by ¹H-NMR (400 MHz, CDCl₃)</td> <td>Consistent with the above structure</td> </tr> <tr> <td>Purity tested</td> <td>98.5%</td> </tr> </tbody> </table>	Analytical Test	Results	Identification by ¹ H-NMR (400 MHz, CDCl ₃)	Consistent with the above structure	Purity tested	98.5%	
Analytical Test	Results						
Identification by ¹ H-NMR (400 MHz, CDCl ₃)	Consistent with the above structure						
Purity tested	98.5%						
Authorized Signature:							
Date:							



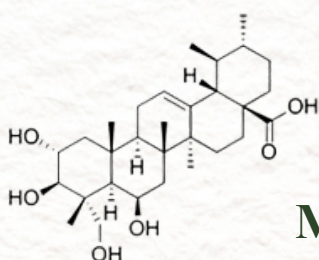
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Centella asiatica L.



Ref: medthai.com

Madecassic acid

CAS No.	18449-41-7	Purity	≥98%
Catalog No.	CFN99914	Type of Compound	Triterpenoids
Molecular Formula	C ₃₀ H ₄₈ O ₆	Physical Desc.	Powder
Molecular Weight	504.70 g/mol	Source	The herbs of Centella asiatica (L.) Urban
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Madecassic acid has anti-diabetic, anti-tumor, wound-healing, and anti-inflammatory properties, it can improve glycemic control and hemostatic imbalance, lower lipid accumulation, and attenuate oxidative and inflammatory stress in diabetic mice. It can protect against hypoxia-induced oxidative stress in retinal microvascular endothelial cells via ROS-mediated endoplasmic reticulum stress. It inhibited the expression of NOS, COX-2, TNF-α, IL-1β, IL-6, and the downregulation of NF-κB activation.

Targets: ROS | NOS | COX | TNF-α | IL Receptor | NF-κB | Caspase | Bcl-2/Bax | p53 | NO | PGE | gp120/CD4 | IkB | IKK

Source: The herbs of Centella asiatica (L.) Urban

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months (2-8°C).

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After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. Take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. For liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. Try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS	
Madecassic acid	
[Catalog No.] CFN99914	
[CAS No.] 18449-41-7	
[Purity] 98.5%	
[M.F.] C ₃₀ H ₄₈ O ₆	
[Physical Description] Powder	
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	
[Weight] 25mg	
[Lot No.] CFN20202	
[Storage] Protected from air and light, refrigerate or freeze (2-8 °C)	
[Intended Use] For laboratory use only	
[Shelf Life] 2 years	
[Chemical Structure]	
[Characterization Data Summary]	
Analytical Test	Results
Identification by ¹ H-NMR (400 MHz, CDCl ₃)	Consistent with the above structure
Purity tested	98.5%
Authorized Signature:	
Date:	



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Ref: medthai.com

Plant library of *Centella asiatica* L.

Cat. No.	Information	
CFN97743	41682-30-8	8-Acetoxypentadeca-1,9Z-diene-4,6-diyn-3-ol
CFN98688	464-92-6	Asiatic acid
CFN99912	16830-15-2	Asiaticoside
CFN95124	125265-68-1	Asiaticoside B
CFN99914	18449-41-7	Madecassic acid
CFN99913	34540-22-2	Madecassoside



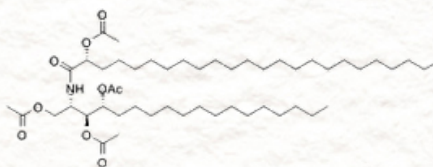
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2-2'-(Hydroxytetracosanoylamino)-octadecane-1,3,4-triol tetraacetate

CAS No.	340702-68-3	Purity	>=98%
Catalog No.	CFN98439	Type of Compound	Cerebrosides
Molecular Formula	C ₅₀ H ₉₃ NO ₉	Physical Desc.	Powder
Molecular Weight	852.3 g/mol	Source	The herbs of Phyllanthus emblica
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: (2S,3S,4R,2'R)-2-(2'-Hydroxytetracosanoylamino) octadecane-1,3,4-triol at concentration of 100 ug/mL shows selectively inhibitory activity against phospholipase A 2 (PLA 2) secreted from Crotalus adamanteus venom, but inactive against PLA 2 of bee venom (Apis mellifera).

Source: The herbs of Phyllanthus emblica

Solvent: DMSO, Pyridine, Methanol, Ethanol, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

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CERTIFICATE OF ANALYSIS

2-2'-(Hydroxytetracosanoylamino)-octadecane-1,3,4-triol tetraacetate

[Catalog No.] CFN98439

[CAS No.] 340702-68-3

[Purity] >=98%

[M.F] C₅₀H₉₃NO₉

[Physical Description]

[Solvent] Pyridine, DMSO


[Weight] 5mg

[Lot No.] CFS201701

[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)

[Intended Use] For laboratory use only

[Shelf Life] 2 years



[Chemical Structure]

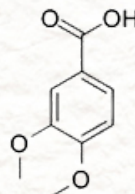
[Characterization Data Summary]

Analytical Test	Results
Identification by NMR	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:

Date:





3,4-Dimethoxybenzoic acid

CAS No.	93-07-2	Purity	>=98%
Catalog No.	CFN97499	Type of Compound	Phenols
Molecular Formula	C ₉ H ₁₀ O ₄	Physical Desc.	Powder
Molecular Weight	182.2 g/mol	Source	The fruits of Phyllanthus emblica L.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: 3,4-Dimethoxybenzoic acid(Veratric acid), a simple benzoic acid derived from plants and fruits, has anti-oxidant, anti-inflammation, and blood pressure-lowering effects.

Source: The fruits of Phyllanthus emblica L.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

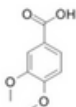
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CERTIFICATE OF ANALYSIS
3,4-Dimethoxybenzoic acid

[Catalog No.] CFN97499
[CAS No.] 93-07-2
[Purity] >=98%
[M.F] C₉H₁₀O₄
[Physical Description] Powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 20mg
[Lot No.] CFS202101
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H-NMR, HPLC	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:
Date:

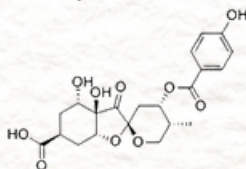


Phyllanthus emblica L.



Ref: KINLAKESTARS.COM

Glochicoccin D



CAS No.	927812-23-5	Purity	>=98%
Catalog No.	CFN97495	Type of Compound	Miscellaneous
Molecular Formula	C ₂₁ H ₂₄ O ₁₀	Physical Desc.	Powder
Molecular Weight	436.4 g/mol	Source	The fruits of <i>Phyllanthus emblica</i> L.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Standard reference

Source: The fruits of *Phyllanthus emblica* L.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months (2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

ISO 9001:2008

CERTIFICATE OF ANALYSIS
Glochicoccin D

[Catalog No.] CFN97495

[CAS No.] 927812-23-5

[Purity] >=98%

[M.F] C₂₁H₂₄O₁₀

[Physical Description]

[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[Weight] 5mg

[Lot No.] CFS201701

[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)

[Intended Use] For laboratory use only

[Shelf Life] 2 years

[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by NMR	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:

Date:



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Plant library of *Phyllanthus emblica* L.



Ref: KINLAKESTARS.COM

Cat. No.	Information
CFN98439	340702-68-3 2-2'-(Hydroxytetracosanoylamino)-octadecane-1,3,4-triol tetraacetate
CFN97499	93-07-2 3,4-Dimethoxybenzoic acid
CFN97405	84812-00-0 3,4-Dimethoxyphenyl beta-D-glucoside
CFN97495	927812-23-5 Glochicoccin D
CFN95201	1236310-34-1 Methyl neochebulinate



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Ref: th.yanhee.net/info/000104/kacampfer

(2R)-5,7-Dimethoxyflavanone

CAS No.	1277188-85-8	Purity	>=98%
Catalog No.	CFN90899	Type of Compound	Flavonoids
Molecular Formula	C ₁₇ H ₁₆ O ₄	Physical Desc.	Powder
Molecular Weight	284.31 g/mol	Source	The black rhizomes of Boesenbergia panduta.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: 5,7-Dimethoxyflavanone has anti-inflammatory activity.

Targets: TNF-α | IL Receptor | NO | IFN-γ

Source: The black rhizomes of Boesenbergia panduta.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

ChemFaces®

ISO 9001:2008

CERTIFICATE OF ANALYSIS

(2R)-5,7-Dimethoxyflavanone

[Catalog No.] CFN90899

[CAS No.] 1277188-85-8

[Purity] >=98%

[M.F] C₁₇H₁₆O₄

[Physical Description]

[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

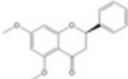
[Weight] 5mg

[Lot No.] CFS201701

[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)

[Intended Use] For laboratory use only

[Shelf Life] 2 years

[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by NMR	Consistent with the above structure
Purity tested	>=98%

Authorized Signature:

Date:



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Ref: th.yanhee.net/info/000104/acmp/101

Longiferone B

CAS No.	1639810-67-5	Purity	>=98%
Catalog No.	CFN89084	Type of Compound	Sesquiterpenoids
Molecular Formula	C ₁₅ H ₂₂ O	Physical Desc.	Oil
Molecular Weight	218.34 g/mol	Source	The rhizomes of <i>Boesenbergia longiflora</i> (Wall.) Kuntze.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Longiferone B shows anti-inflammatory activity against NO release with IC₅₀ values of 21.0 uM, it also suppresses the iNOS and COX-2 mRNA expression.

Targets: NO | NOS | COX

Source: The rhizomes of *Boesenbergia longiflora* (Wall.) Kuntze.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months (2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

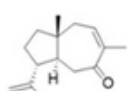
ChemFaces

ISO 9001:2015

CERTIFICATE OF ANALYSIS
Longiferone B

[Catalog No.] CFN89084
[CAS No.] 1639810-67-5
[Purity] >=98%
[M.F.] C₁₅H₂₂O
[Physical Description] Oil
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 10mg
[Lot No.] CFS202002
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H-NMR	Consistent with the above structure
Purity tested	>=98%

Authorized Signature: _____
Date: _____



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Ref: th.yanhee.net/info/001015/kacampfer

Pinocembrin chalcone

CAS No.	4197-97-1	Purity	>=98%
Catalog No.	CFN96919	Type of Compound	Chalcones
Molecular Formula	C ₁₅ H ₁₂ O ₄	Physical Desc.	Powder
Molecular Weight	256.25 g/mol	Source	The rhizomes of Boesenbergia pandurata.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Pinocembrin chalcone has tyrosinase inhibitory activity. It also shows antimutagenic effect, which is mainly due to the inhibition of the first step of enzymatic activation of heterocyclic amines. Pinocembrin chalcone shows antimicrobial activity against the antibiotic susceptible NG strain WHO V ; it also displays activity against Candida albicans with a minimal inhibitory concentration value of 100 microg/mL.

Targets: Tyrosinase | Calcium Channel | Antifection

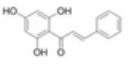
Source: The rhizomes of Boesenbergia pandurata.

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS Pinocembrin chalcone							
[Catalog No.] CFN96919							
[CAS No.] 4197-97-1							
[Purity] >=98%							
[M.F.] C ₁₅ H ₁₂ O ₄							
[Physical Description] Powder							
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.							
[Weight] 5mg							
[Lot No.] CFS202002							
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)							
[Intended Use] For laboratory use only							
[Shelf Life] 2 years							
							
[Chemical Structure]							
[Characterization Data Summary]							
<table><tr><th>Analytical Test</th><th>Results</th></tr><tr><td>Identification by ¹H-NMR, HPLC</td><td>Consistent with the above structure</td></tr><tr><td>Purity tested</td><td>>=98%</td></tr></table>	Analytical Test	Results	Identification by ¹ H-NMR, HPLC	Consistent with the above structure	Purity tested	>=98%	
Analytical Test	Results						
Identification by ¹ H-NMR, HPLC	Consistent with the above structure						
Purity tested	>=98%						
Authorized Signature:							
Date:							



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Andrographis paniculata



Ref: www.chula.ac.th/highlight/50239

Andrographolide

CAS No.	5508-58-7	Purity	>=98%
Catalog No.	CFN98923	Type of Compound	Diterpenoids
Molecular Formula	C ₂₀ H ₃₀ O ₅	Physical Desc.	Powder
Molecular Weight	350.5 g/mol	Source	The herbs of Andrographis paniculata (Burm. f.) Nees
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Andrographolide is an antiinflammatory, antiviral, anti-cancer, hepatoprotective, antithrombotic, hypotensive and antiatherosclerotic drug, it can cure hyperpigmentation disorders. Andrographolide protects against chemical-induced oxidative damage by up-regulating the gene transcription and activity of antioxidant enzymes in various tissues. Andrographolide has potential as a leading compound in the prevention or treatment of obesity and insulin resistance, can ameliorate lipid metabolism and improve glucose use in mice with HFD-induced obesity.

Targets: Wnt/ β -catenin | PKC | GSK-3 | Akt | PI3K | TGF- β /Smad | HO-1 | Nrf2 | ERK | JNK | gp120/CD4 | HIV | MMP(e.g. TIMP) | PAFR | AP-1 | ROS | Calcium Channel


Source: The herbs of Andrographis paniculata (Burm. f.) Nees

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months (2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

After receiving: The packaging of the product may have turned upside down during transportation, resulting in the natural compounds adhering to the neck or cap of the vial. take the vial out of its packaging and gently shake to let the compounds fall to the bottom of the vial. for liquid products, centrifuge at 200-500 RPM to gather the liquid at the bottom of the vial. try to avoid loss or contamination during handling.

CERTIFICATE OF ANALYSIS Andrographolide	
[Catalog No.] CFN98923	
[CAS No.] 5508-58-7	
[Purity] >=98%	
[M.W.] C ₂₀ H ₃₀ O ₅	
[Physical Description] Powder	
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	
[Weight] 20mg	
[Lot No.] CF3202201	
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)	
[Intended Use] For laboratory use only	
[Shelf Life] 2 years	
[Chemical Structure] 	
[Characterization Data Summary]	
Analytical Test	Results
Verification by 13C-NMR, HPLC	Consistent with the above structure
Purity tested	>=98%
Authorized Signature:	
Date:	



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Dehydroandrographolide

CAS No.	134418-28-3	Purity	≥98%
Catalog No.	CFN98923	Type of Compound	Diterpenoids
Molecular Formula	C ₂₀ H ₂₈ O ₄	Physical Desc.	White powder
Molecular Weight	332.43 g/mol	Source	The herbs of Andrographis paniculata (Burm. f.) Nees
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.	Price	Inquiry

Biological Activity

Description: Dehydroandrographolide is a novel TMEM16A inhibitor and possesses multiple pharmacological activities, including anti-inflammation, anti-cancer, anti-bacterial, anti-virus and anti-hepatitis activity. It possesses activity against HBV DNA replication with IC₅₀ values of 22.58 uM and low SI values of 8.7 ; it can alleviate oxidative stress in LPS-induced acute lung injury possibly by inactivating iNOS.

Targets: IL Receptor | NOS | TNF-α | p38MAPK | HBV

Source: The herbs of Andrographis paniculata (Burm. f.) Nees

Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

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CERTIFICATE OF ANALYSIS
Dehydroandrographolide

[Catalog No.] CFN98923
[CAS No.] 134418-28-3
[Purity] ≥98%
[M.F.] C₂₀H₂₈O₄
[Physical Description] White powder
[Solvent] Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
[Weight] 20mg
[Lot No.] CFN022102
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H NMR, HPLC	Consistent with the above structure
Purity tested	≥98%

Authorized Signature: _____
Date: _____



Stevia rebaudiana

Stevioside

CAS No.	57817-89-7	Purity	>=98%
Catalog No.	CFN99548	Type of Compound	Diterpenoids
Molecular Formula	C ₃₈ H ₆₀ O ₁₈	Physical Desc.	White powder
Molecular Weight	804.88 g/mol	Source	The leaves of Stevia rebaudiana
Solvent	DMSO, Pyridine, Methanol, Ethanol, etc.	Price	Inquiry

Biological Activity

Description: Stevioside is a safe natural sweetener, has no allergic reactions, suited for both diabetics, and PKU patients, as well as for obese persons intending to lose weight by avoiding sugar supplements in the diet. Stevioside enjoys a dual positive effect by acting as an antihyperglycemic and a blood pressure-lowering substance, it may have therapeutic potential in the treatment of type 2 diabetes and the metabolic syndrome. Stevioside exerts anti-inflammatory and anti-apoptotic properties by inhibiting the release of cytokines and the activation of TLR2 and proteins of the NF-κB and MAPK signaling pathways, as well as caspase-3 and Bax.

Targets: TLR | NF-κB | TNF-α | IL Receptor | IκB | p38MAPK | ERK | JNK | p65 | Caspase | PDE | IKK

Source: The leaves of Stevia rebaudiana

Solvent: DMSO, Pyridine, Methanol, Ethanol, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to two weeks. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

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CERTIFICATE OF ANALYSIS
Stevioside

[Catalog No.] CFN99548
[CAS No.] 57817-89-7
[Purity] >=98%
[M.F.] C₃₈H₆₀O₁₈
[Physical Description] White powder
[Solvent] DMSO, Pyridine, Methanol, Ethanol, etc.
[Weight] 25mg/3
[Lot No.] CFN00201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]

[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H NMR, HPLC	Consistent with the above structure
Purity assay	>=98%

Authorized Signature: _____
Date: _____



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Stevia rebaudiana

Rebaudioside A

CAS No.	58543-16-1	Purity	>=98%
Catalog No.	CFN99110	Type of Compound	Diterpenoids
Molecular Formula	C ₄₄ H ₇₀ O ₂₃	Physical Desc.	Powder
Molecular Weight	967.01 g/mol	Source	The leaves of Stevia rebaudiana Bertoni.
Solvent	DMSO, Pyridine, Methanol, Ethanol, etc.	Price	Inquiry

Biological Activity

Description: Rebaudioside A, an natural sweetening ingredient, is approximately 250 to 300 times sweeter than sucrose, do not contribute calories or carbohydrates to the diet and do not affect blood glucose or insulin response. It is a α -glucosidase inhibitor with IC₅₀ of 35.01 μ g/ml.

Targets: α -glucosidase

Source: The leaves of Stevia rebaudiana Bertoni.

Solvent: DMSO, Pyridine, Methanol, Ethanol, etc.

Storage: Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months(2-8°C).

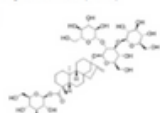
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CERTIFICATE OF ANALYSIS
Rebaudioside A

[Catalog No.] CFN99110
[CAS No.] 58543-16-1
[Purity] >=98%
[M.F] C₄₄H₇₀O₂₃
[Physical Description] Powder
[Solvent] DMSO, Pyridine, Methanol, Ethanol, etc.
[Weight] 20mg
[Lot No.] CFS202201
[Storage] Protected from air and light, refrigerate or freeze(2-8 °C)
[Intended Use] For laboratory use only
[Shelf Life] 2 years

[Chemical Structure]



[Characterization Data Summary]

Analytical Test	Results
Identification by ¹ H-NMR, HPLC	Consistent with the above structure
Purity tested	>=98%

Authorized Signature: _____
Date: _____



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Ref: cleanjang-healthy.com

Plant library of Stevia rebaudiana

Catalog	Product Name	CAS Number	Manual
CFN99548	Stevioside	57817-89-7	PDF
CFN99110	Rebaudioside A	58543-16-1	PDF
CFN97326	Stigmasterol	83-48-7	PDF
CFN99916	Beta-Sitosterol	83-46-5	PDF
CFN98843	Apigenin	520-36-5	PDF
CFN98981	Cosmosiin	578-74-5	PDF
CFN98601	Vitexin	3681-93-4	PDF
CFN98784	Luteolin	491-70-3	PDF
CFN98565	Luteolin-7-O-glucoside	5373-11-5	PDF
CFN98756	Kaempferitrin	482-38-2	PDF
CFN98850	Quercitrin	522-12-3	PDF
CFN90544	Isosteviol	27975-19-5	n/a
CFN90470	Rebaudioside B	58543-17-2	PDF
CFN97018	Paniculoside I	60129-63-7	n/a
CFN97019	Paniculoside II	60129-64-8	n/a
CFN90257	Rebaudioside D	63279-13-0	n/a
CFN90258	Rebaudioside C	63550-99-2	n/a
CFN92266	Dulcoside A	64432-06-0	PDF
CFN90984	Rebaudioside G	127345-21-5	n/a



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Natural Products

Alkaloids	
23512-53-0	4,5-Dihydroisopergoluminine
2584997-91-9	N-trans-p-Coumaroyl-N'-trans-feruloyl-3-hydroxy-cadaverine
1210820-67-9	1-Methyl-6,8-dimethoxyquinoline-2,1H-one
2854-40-2	Cyclo(L-Pro-L-Val)
57089-60-8	Cyclo(L-Pro-L-Ile)
2873-36-1	Cyclo(L-Leu-L-Pro)

Lignans	
126253-42-7	Icariside F4
285136-03-0	alpha-[4-((1E)-2-Carboxyethenyl)-2-hydroxyphenoxy]-beta,3,4-trihydroxybenzene...
42123-27-3	Tetradehydopodophyllotoxin
144608-09-3	Schizotensin A
848844-79-1	Secoisolaricresinol 9,9'-diacetate
159736-38-6	Clinopodic acid E

Phenols	
13186-19-1	6-O-Galloylglucose
46112-46-3	4-(2-Hydroxyethyl)benzoic acid
N/A	New compound 26
878006-06-5	(E)-[6]-Dehydroparadol
143111-84-6	Dihydroparadol
139163-18-1	Ellagic acid-4-O-beta-D-xylopyranoside

Chalcones	
189299-05-6	Xanthohumol C
152340-67-5	Calythropsin
1776-30-3	Z',4'-Dihydroxychalcone
197227-39-7	Tetrahydroxymethoxychalcone
111316-17-7	Z'-O-Methylphloretin (4,2',4'-Trihydroxy-6'-methoxydihydrochalcone)
94103-36-3	Z',4',6'-4-Tetramethoxychalcone

Quinones	
4707-32-8	Beta-Lapachone
125906-49-2	3-(beta-D-Glucopyranosyloxy)-1,6-dihydroxy-2-methyl-9,10-anthracenedione
34298-85-6	Emodin 6-O-beta-D-glucoside
83-72-7	2-Hydroxy-1,4-naphthoquinone
2348-82-5	2-Methoxy-1,4-naphthoquinone
635-12-1	1,4-Anthraquinone

Coumarins	
57601-61-3	Dipetalolactone
1857-05-2	6,7-Dimethoxy-4-phenylcoumarin
73292-92-9	2'E-3'-formaldehydylosthole
135064-04-9	Umbelliferone 7-O-rutinoside
477-32-7	Cardine
104196-69-2	Neoartanin

Steroids	
54082-42-7	25,28-Di-epi-cysterone
562-34-5	Chlorogenin
141360-88-5	Polyporusterone A
38395-01-6	Kidjolanin
20817-72-5	Stigmastadienone
14214-69-8	Cholest-4,6-diene-3-ol

Iridoids	
79172-04-6	8-Eniloganin
93930-20-2	Gardoside methyl ester
182172-02-7	10-Carboxyloganin
158599-51-0	Phloyoside II
1008532-71-5	8-Dehydroxy shanzhiside
276691-32-8	Phlorigidoside C

Flavonoids	
19046-26-5	Wistin
14292-40-1	Taxifolin 7-O-glucoside
18467-06-6	Isokaempferide 7-rutinoside
76060-29-2	Quercetagenin 3-methyl ether 7-glucoside
1627598-00-8	Nepetin 7-O-beta-D-glucopyranoside
69256-15-1	Leucocyanidin

Xanthones	
164365-71-3	11-hydroxy-1-isomangostin
2522597-99-3	Garcixanthones B
2182593-73-1	Mangostanaxanthone IV
138529-04-1	Diphlorethohydroxycarmalol
84272-84-4	3'-O-Angeloylhamaudol
117221-65-5	Neolanserin

Antraquinones	
473225-22-8	Barbaloin-related compound B
134863-92-6	10-Hydroxyaloin B
473225-21-7	Barbaloin-related compound A
569-05-1	Fallacinal
132210-48-1	Elgonica dimer A
70588-06-6	Chrysoobtusin

Cerebrosides	
88642-46-0	Cerebroside B
606125-07-9	Memor-cerebroside I
340702-68-3	2-Z'-(Hydroxytetraacosanoylamino)-octadecane-1,3,4-triol tetraacetate
295803-03-1	Gynuramide II
154801-30-6	2-(Z'-Hydroxytetraacosanoylamino)-octadecane-1,3,4-triol
115074-93-6	Soyacerebroside II



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Natural Products

Miscellaneous	
50257-98-2	(E)-Tonghaosu
4575-53-5	(Z)-Tonghaosu
6338-41-6	5-Hydroxymethyl-2-furoic acid
77-93-0	Triethyl citrate
129499-78-1	Ascorbyl glucoside
1109-28-0	Maltotriose

Triterpenoids	
124961-62-2	Raddeanoid R9
781676-86-6	Raddeanoid R18
228251-25-0	24-epi-24-O-acetyl-7,8-didehydrohydroshengmanol-3-O-beta-D-xylopyranoside
150972-77-3	24-epi-7,8-Didehydrocimigenol-3-xyloside
2101977-10-8	Cimiraside E
197013-75-5	Patrinia saponin H3

Sesquiterpenoids	
97643-91-9	8-epi-Helenalin
63568-73-0	Carosiolin
5945-42-6	Aromaticin
3668-14-2	Bjgeloxin
20267-92-9	Hydroxylinderstrenolide
226546-99-2	Oxyphyllol B

Phenylpropanoids	
537-33-7	Sinapyl alcohol
31564-49-5	2-Glucosyloxy-4-methoxycinnamic acid (Z-GMCA)
150892-86-7	cis-2-Hydroxy-4-methoxycinnamic acid 2-glucoside
116872-05-0	Magnolioside B
122-97-4	Hydrocinnamyl alcohol
478294-16-5	Cimiracetate A

Diterpenoids	
60129-60-4	Steviolmonoside
93380-12-2	Epirosmanol
205440-23-9	Taxezopidine H
76429-85-1	10-Deacetylcephalomannine
243448-72-8	Neoorthosiphol A
142741-25-1	Orthosiphol A

Monoterpenoids	
184103-78-4	Benzoylalbiflorin
4221-98-1	(R)-(-)-alpha-Phellandrene
3391-90-0	(S)-(-)-Pulegone
20549-48-8	(+)-Neodihydrocarveol
20549-47-7	(-)-Dihydrocarveol
17882-43-8	(-)-Isopulegone



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Bioactive Products

Hot Research

Antioxidants	Anti-inflammatory
Anticancer	Hepatoprotective
Anti-diabetic	Analgesia
Antimalaric	Anti-proliferation
Anti-Atherosclerotic	Cardioprotective
Antibacterial	Antifungal
Anti-allergy	Inhibitors
Antiviral	Immunomodulators
Anti-hyperlipidemic	Antihypertensive
Antileukaemic	Anti-platelet aggregation
Anti-photoaging	Antihyperglycemic
Antiangiogenic	Pro-apoptotic
Neuroprotection	Antidepressant
Anti-osteoporosis	Anti-obesity
Cancer chemoprevention	Cytotoxic
Vasorelaxation	Insecticides
Food additives	Dietary supplement
Toxicity	

Agricultural Research

Antifeedant	Herbicides
Anthelmintic	Algicides
Phytoalexin	Insecticides
Post ingestive	Phytotoxic
Growth-promoting effects	Anti-plant allelopathy
Anti-powdery mildew	Phagostimulants
Acaricidal	Nematicidal
Nodulation genes inducers	Anti-juvenile hormone
Moulting hormone activity	Ecdysteroid antagonists
Anti-plant-germination and growth	



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Bioactive Products

Food and Spice Research

Food additives

Fragrance ingredients

Preservatives

Sweeteners

Pigments

Nutraceutical

Dietary supplement

Anti-fatigue

Antinutritional

Hygroscopic

Agricultural Research

Anti-photoaging

Cosmetic additives

Skin-lightening agents

Skin-whitening agents

Anti-melanogenic

Preservatives

Pigments

Anti-wrinkle

Moulting hormone activity

Plant Catalog

Screening Library of Plants

Morus alba L

A unique collection of 55 Morus alba L for high throughput screening (HTS) and New drug research

Ginkgo biloba L.

A unique collection of 41 Ginkgo biloba L. for high throughput screening (HTS) and New drug research

Cinnamomum cassia Presl

A unique collection of 47 Cinnamomum cassia Presl for high throughput screening (HTS) and New drug research

Ganoderma lucidum (Curtis) P. Karst

A unique collection of 66 Ganoderma lucidum (Curtis) P. Karst for high throughput screening (HTS) and New drug research

Salvia miltiorrhiza Bge.

A unique collection of 81 Salvia miltiorrhiza Bge. for high throughput screening (HTS) and New drug research

Morus alba L.

A unique collection of 69 Morus alba L. for high throughput screening (HTS) and New drug research

Panax ginseng C. A. Mey.

A unique collection of 52 Panax ginseng C. A. Mey. for high throughput screening (HTS) and New drug research

Glycyrrhiza uralensis Fisch.

A unique collection of 50 Glycyrrhiza uralensis Fisch. for high throughput screening (HTS) and New drug research

Plant Catalog

Panax ginseng C. A. Mey.	Illicium verum	Lilium pumilum D. C.	Lithospermaum erythrorhizon Sieb. et Zucc.
Fraxinus chinensis Roxb	Foeniculum vulgare	Apium graveolens	Polygonum cuspidatum Sieb. et Zucc.
Vitis vinifera L.	Veratrum grandiflorum Loes.	Veronica linariifolia	Physalis alkekengi
Semlaquilegia adoxoides (DC.) makino.	Rubus corchorifolius	Pinus cerebral	Cherry tree
Artemisia absinthium L.	Camellia sinensis (L.) O. Kuntze.	Tripterygium wilfordii Hook. f.	Rubia cordifolia L.
Polygala japonica Houtt.	Ginkgo biloba L.	Garcinia cambogia	Angelica acutlobac (Sieb. et Zucc.) Kl...
Centella asiatica (L.) Urban	Asarum sieboldii Miq.	Scrophularia ningpoensis Hemsl.	Cornus officinalis Sieb. et Zucc.



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