

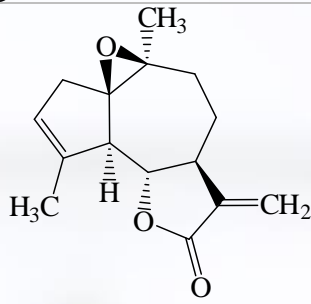


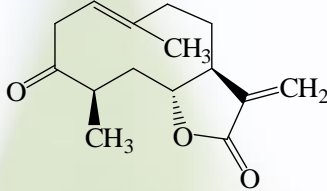
International Research and  
Production Holding  
"Phytochemistry"  
Международный научно-  
производственный холдинг  
«Фитохимия»  
«Фитохимия» халықаралық  
ғылыми-өндірістік холдингі

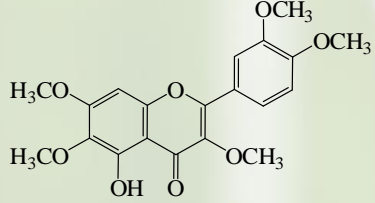
## CATALOG - SAMPLES OF INDIVIDUAL COMPOUNDS

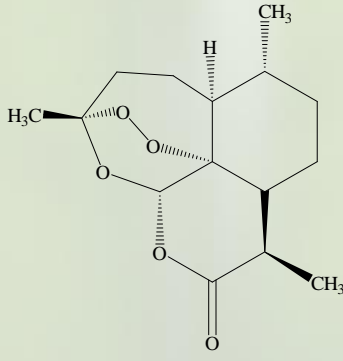
Жеке қосылыстар  
үлгілерінің каталогы -  
Каталог образцов  
индивидуальных  
соединений

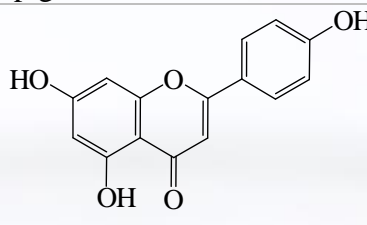
2020 год

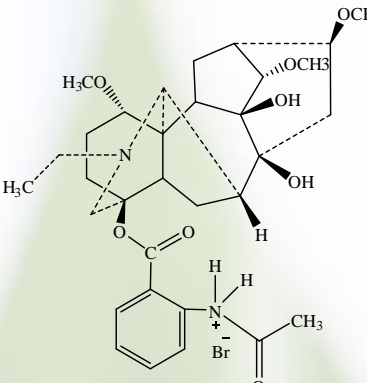
Arglabin		
	CAS#	84692-91-1
	Synonyms:	[1(10)-epoxy-5,7 $\alpha$ (H),6 $\beta$ (H)-guaia-3(4),11(13)-dien-6,12-olide]
	Molecular formula:	C <sub>15</sub> H <sub>18</sub> O <sub>3</sub>
	Molecular weight:	246.31 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	100-102 $^{\circ}$ C
	Colorless crystalline solid	

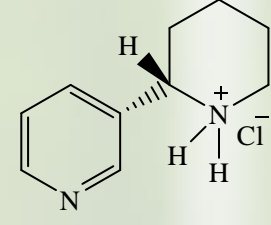
Argolide		
	Synonyms:	[3-keto-4(R),6(R),7(S)-germacra-1(10)E,11(13)-dien-6,12-olide]
	Molecular formula:	C <sub>15</sub> H <sub>20</sub> O <sub>3</sub>
	Molecular weight:	248.32 g/mol
	Purity by HPLC:	>99,0%
	Melting point:	133-135 $^{\circ}$ C
	Colorless crystalline solid	

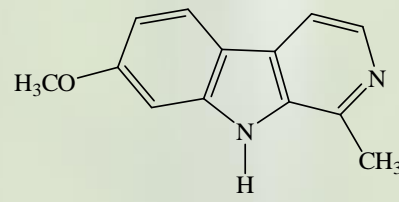
Artemisetin		
	CAS#	479-90-3
	Synonyms:	[5-hydroxy-2,6,7,3'4'-pentamethoxyflavone], [Erianthin], [Quercetagetin 3,6,7,3',4'-pentamethyl ether]
	Molecular formula:	C <sub>20</sub> H <sub>20</sub> O <sub>8</sub>
	Molecular weight:	388.37 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	167-169 $^{\circ}$ C
	Yellow powdery solid	

Artemisinin		
	CAS#	63968-64-9
	Synonyms:	[3R-(3 $\alpha$ ,5 $\alpha$ $\beta$ ,6 $\beta$ ,8 $\alpha$ $\beta$ ,9 $\alpha$ ,12 $\beta$ ,12 $\alpha$ R)]-octahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-(3H)-one], [Arteannuin], [Huanghuahaosu], [Qinghaosu], [Qing Hau Sau], [Qing Hau Su], [Qinghosu], [Artemisinin]
	Molecular formula:	C <sub>15</sub> H <sub>22</sub> O <sub>5</sub>
	Molecular weight:	282.33 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	150-153 $^{\circ}$ C
	Colorless crystalline solid	

Apigenin		
	CAS#	520-36-5
	Synonyms:	[4',5,7-trihydroxyflavone]
	Molecular formula:	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>
	Molecular weight:	270.24 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	341-343oC
	Yellow powdery solid	

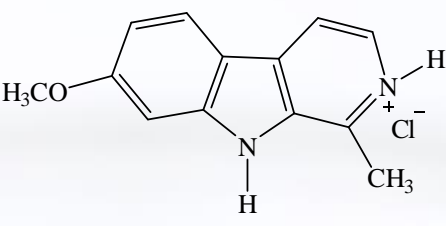
Allapinine		
	Synonyms:	[4-(N-acetylanthranoyloxy)-8,9-dihydroxy-1α, 14α, 16β-trimethoxy-N-ethyl-18-noraconan hydrobromide], [Lappaconitine hydrobromide]
	Molecular formula:	C <sub>32</sub> H <sub>45</sub> Br N <sub>2</sub> O <sub>8</sub>
	Molecular weight:	665.6 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	225-226oC
	White crystalline solid	

Anabesine hydrochloride		
	CAS#	53912-89-3
	Synonyms:	[3-(Piperidin-2-yl)pyridine hydrochloride]
	Molecular formula:	C <sub>10</sub> H <sub>15</sub> ClN <sub>2</sub>
	Molecular weight:	198.69 g/mol
	Purity by HPLC:	≥98,0%
	Melting point:	
Colorless crystalline solid		

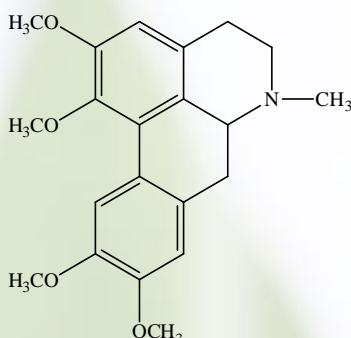
Harmine		
	CAS#	442-51-3
	Synonyms:	[7 - methoxy-1 - methyl - 9H - pyrido -[3,4-b] indole] [Banisterine], [Leucoharmine], [Telepathine], [Yageine], [Yajeine]
	Molecular formula:	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O
	Molecular weight:	212.25g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	265-268oC
	Yellowish powdery solid	



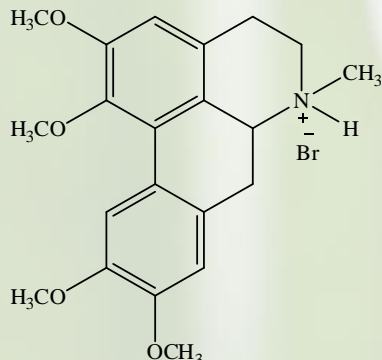
### Harmine hydrochloride

	Synonyms:	[7-methoxy-1-methyl-9H-pyrido(3,4-b) indole-2N-hydrochloride]
	Molecular formula:	C <sub>13</sub> H <sub>13</sub> ClN <sub>2</sub> O
	Molecular weight:	248.71 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	272- 275oC
	White powdery solid	

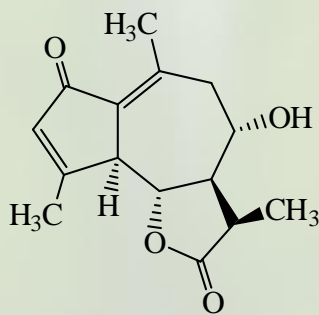
### Glaucine

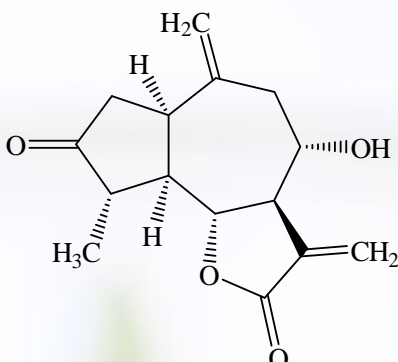
	CAS#	38325-02-9
	Synonyms:	[(S)- 5,6,6a,7- tetrahydro-1,2,9,10-tetramethoxy-6-methyl-4H-dibenzo (de,g) quinoline], [tussiglaucin]
	Molecular formula:	C <sub>21</sub> H <sub>25</sub> NO <sub>4</sub>
	Molecular weight:	355.43 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	115-117oC
White powdery solid		

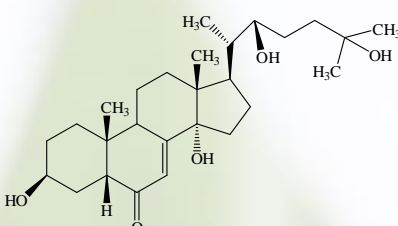
### Glaucine hydrobromide

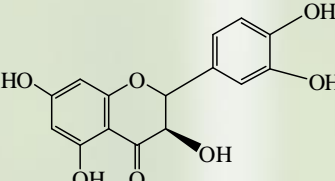
	Synonyms:	[(6aS)-1,2,9,10- tetramethoxy-6-methyl-5,6,6a,7-tetrahydro-4H-dibenzo (de,g) quinoline, hydrobromide]
	Molecular formula:	C <sub>21</sub> H <sub>26</sub> BrNO <sub>4</sub>
	Molecular weight:	436.35 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	198oC
	White crystalline solid	

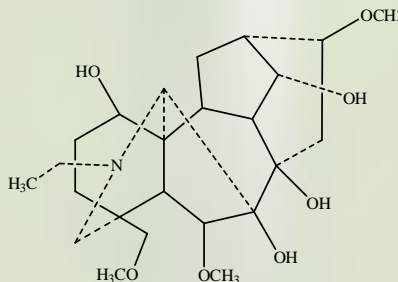
### Grossmisine

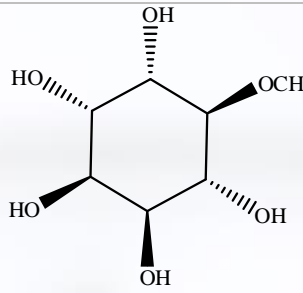
	Synonyms:	[8α-hydroxy-2-oxo-5,11α(H)-guaia-1(10),3(4)-dien-6,12-olide], [8α-oxyachillin]
	Molecular formula:	C <sub>15</sub> H <sub>18</sub> O <sub>4</sub>
	Molecular weight:	262.31 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	166-167oC, decomposes at 122-123oC
Yellowish powdery solid		

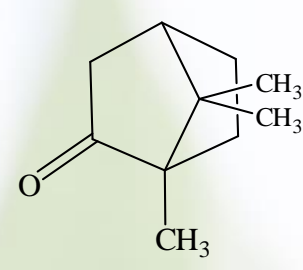
Grosshemin		
	CAS#	22489-66-3
	Synonyms:	[3-oxo-8 $\alpha$ -hydroxy-1,5 $\alpha$ (H),4 $\beta$ (H)-guaia-10(14),11(13)-dien-6,12-olide]
	Molecular formula:	C <sub>15</sub> H <sub>18</sub> O <sub>4</sub>
	Molecular weight:	262.31 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	200-202 $^{\circ}$ C
	Colorless crystalline solid	

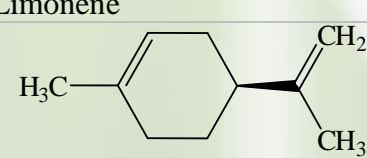
2-Deoxyecdysone		
	Synonyms:	[2-Deoxy- $\alpha$ -ecdysone]
	Molecular formula:	C <sub>27</sub> H <sub>44</sub> O <sub>5</sub>
	Molecular weight:	448.64
	Purity by HPLC:	≥98,5%
	Melting point:	207 $^{\circ}$ C
White powdery solid		

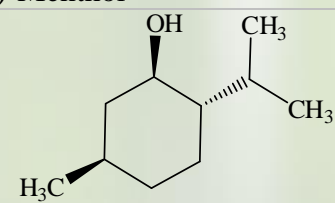
Dihydroquercetin		
	CAS#	480-18-2
	Synonyms:	[-2R-2,3,5,7,3'4'-pentaoxyflavone], [Taxifolin]
	Molecular formula:	C <sub>15</sub> H <sub>12</sub> O <sub>7</sub>
	Molecular weight:	304.25 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	222-224 $^{\circ}$ C
Yellow crystalline solid		

Delcosine		
	Synonyms:	[[(3S,6aS,9S,10R,11aR,12S)-1-ethyl-10,13-dimethoxy-3-(methoxymethyl)tetrahydro-1H-3,6a,12-(epiethane [1,1,2] triyl) -7,9-mezanafto[2,3-b]azocine-6,8,11a,12-tetraol]
	Molecular formula:	C <sub>24</sub> H <sub>39</sub> NO <sub>7</sub>
	Molecular weight:	453.58g/mol
	Purity by HPLC:	≥97,5%
	Melting point:	203-206 $^{\circ}$ C
	White crystalline solid	

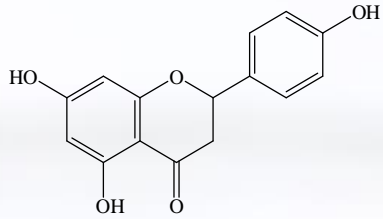
D-Pinitol		
	CAS#	10284-63-6
	Synonyms:	[Pinitol]
	Molecular formula:	C <sub>7</sub> H <sub>14</sub> O <sub>6</sub>
	Molecular weight:	194.18 g/mol
	Purity by HPLC:	≥98,0%
	Melting point:	179-185°C
	White powdery solid	

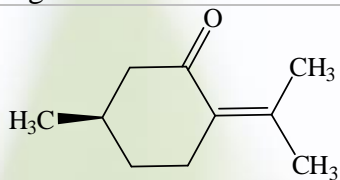
DL-Camphor		
	CAS#	76-22-2
	Synonyms:	[1,7,7-trimethyl-bicyclo-[2,2,1]-heptan-2-one]
	Molecular formula:	C <sub>10</sub> H <sub>16</sub> O
	Molecular weight:	152.24 g/mol
	Purity by GC-MS:	≥98%
	Melting point:	176 -178°C
	Colorless crystalline solid	

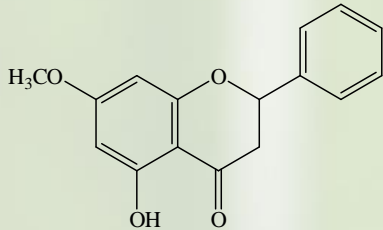
Limonene		
	CAS#	138-86-3
	Synonyms:	[4-isopropenyl-1-methyl-cyclohexene], [p-Mentha-1,8-diene]
	Molecular formula:	C <sub>10</sub> H <sub>16</sub>
	Molecular weight:	136.24 g/mol
	Purity by GC-MS:	≥98%
	Colorless liquid with a citrus odor	

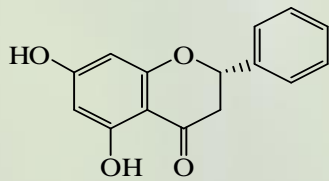
(-)-Menthol		
	CAS#	2216-51-5
	Synonyms:	[2-isopropyl-5-methyl-cyclohexanol], [(-)-Menthol], [(1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol], [5-Methyl-2-(1-methylethyl)cyclohexanol]
	Molecular formula:	C <sub>10</sub> H <sub>20</sub> O
	Molecular weight:	156.27g/mol
	Purity by GC-MS:	≥98%
	Melting point:	42-43°C
	Colorless crystalline solid with a distinctive peppermint odor	

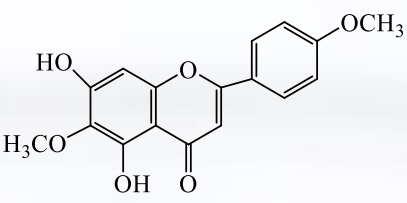


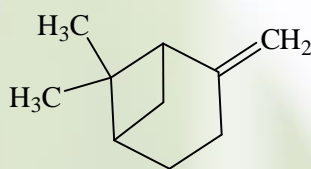
Naringenin		
	CAS#	67604-48-2
	Synonyms:	[4',5,7-trihydroxyflavanone], [(±)-2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one], [(±)-Naringenin]
	Molecular formula:	C <sub>15</sub> H <sub>12</sub> O <sub>5</sub>
	Molecular weight:	272.26g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	250-252oC
	Yellow powdery solid	

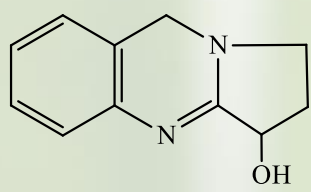
Pulegone		
	CAS#	89-82-7
	Synonyms:	[2-isopropylidene-5-methyl-cyclohexanone], [Cyclohexanone], [p-Menth-4(8)-en-3-one]
	Molecular formula:	C <sub>10</sub> H <sub>16</sub> O
	Molecular weight:	152.23 g/mol
	Purity by GC-MS:	≥98%
	Colorless liquid with a distinctive odor	

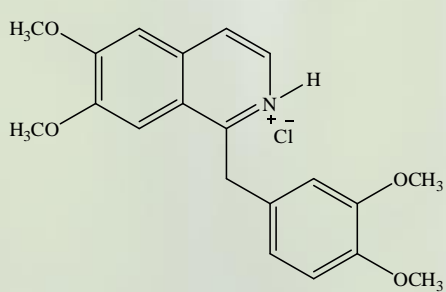
Pinostrobin		
	CAS#	480-37-5
	Synonyms:	[5- hydroxy-7-methoxyflavanone], [5-hydroxy-7-methoxy-2-phenylchroman-4-one], [5-hydroxy-7-methoxy-2-phenyl-2,3-dihydro-4H-chromen-4-one]
	Molecular formula:	C <sub>16</sub> H <sub>14</sub> O <sub>4</sub>
	Molecular weight:	270,28 g/mol
	Purity by HPLC:	≥99,5%
	Melting point:	96-99
	Colorless crystalline solid	

Pinocembrin		
	CAS#	480-39-7
	Synonyms:	[5,7-dihydroxyflavanone], [Dihydrochrysin], [Galangin flavanone]
	Molecular formula:	C <sub>15</sub> H <sub>12</sub> O <sub>4</sub>
	Molecular weight:	256.26 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	196-198oC
	Colorless crystalline solid	

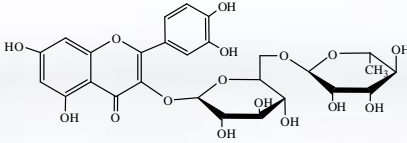
Pectolarigenin		
	CAS#	520-12-7
	Synonyms:	[5,7- dihydroxy-6,4'- dimethoxyflavone], [5,7- Dihydroxy-4',6- dimethoxyflavone], [4'- Methylcapillarisin], [6- methoxyacacetin], [Hortensin]
	Molecular formula:	C <sub>17</sub> H <sub>14</sub> O <sub>6</sub>
	Molecular weight:	314.29 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	206-208 °C
	Yellow powdery solid	

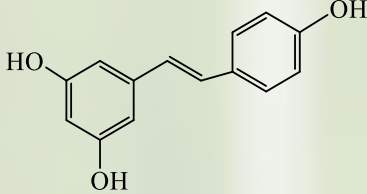
β-pinene		
	CAS#	127-91-3
	Synonyms:	[6,6-dimethyl-2- methylenbicyclo[3.1.1] heptane], [Nopinene], [Terebenthene], [Rosemarel], [2(10)-Pinene]
	Molecular formula:	C <sub>10</sub> H <sub>16</sub>
	Molecular weight:	136.24g/mol
	Purity by GC-MS:	≥98%
	Colorless liquid with a distinctive odor	

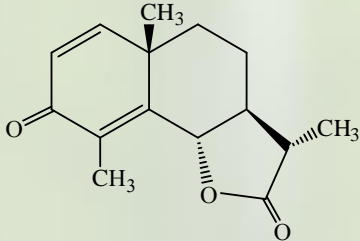
Peganine		
	CAS#	6159-56-4-ВАСИЦИНА
	Synonyms:	[1,2,3,9-tetrapyrrole[2,1- в]chinazoline-3-ol-9], [Vasicine]
	Molecular formula:	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O
	Molecular weight:	188.23 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	210-213°C
Colorless crystalline solid		

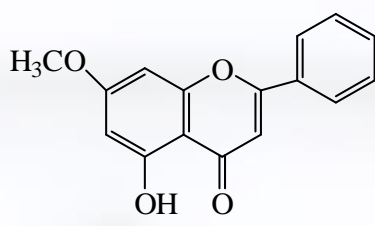
Papaverine hydrochloride		
	CAS#	61-25-6
	Synonyms:	[6,7-dimethoxy-1-(3,4- dimethoxybenzen)isoquinoline hydrochloride], [6,7-Dimethoxy- 1-veratrylisoquinoline hydrochloride]
	Molecular formula:	C <sub>20</sub> H <sub>22</sub> ClNO <sub>4</sub>
	Molecular weight:	375.85 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	225-226°C
	White crystalline solid	

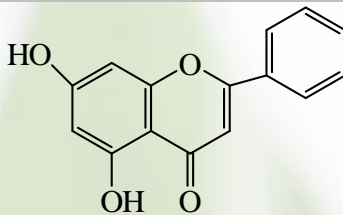


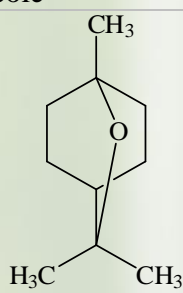
Rutin		
	CAS#	153-18-4
	Synonyms:	[3-ramnoglycosyl-3, 5, 7, 3', 4'-pentaoxyflavone], [3,3',4',5,7-Pentahydroxyflavone 3-rutinoside], [3-Rutinosylquercetin], [Globulariacitrin], [Ilixanthi], [Myrticalorin], [Osyritrin], [Paliurosido], [Phytomelin], [Quercetin 3-rhamnoglucoside], [Quercetin 3-rutinoside], [Rutoside], [Sophorin], [Tanrutin], [Violaquercitrin]
	Molecular formula:	C <sub>27</sub> H <sub>30</sub> O <sub>16</sub>
	Molecular weight:	610.52 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	188-190°C
	Yellow powdery solid	

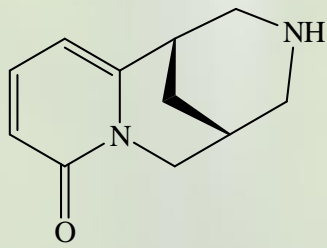
<i>trans</i> -Resveratrol		
	CAS#	501-36-0
	Synonyms:	[5-(4-hydroxystyryl)benzene-1,3-diol], [trans-3,4',5-Trihydroxystilbene], [5-[(1 <i>E</i> )-2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol]
	Molecular formula:	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>
	Molecular weight:	228.25g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	242-245°C
	Colorless crystalline solid	

α-Santonin		
	CAS#	481-06-1
	Synonyms:	[3-oxo-6,11β(H),7α(H)-eudesm-1(2),4(5)-dien-6,12-olide], [Semenen]
	Molecular formula:	C <sub>15</sub> H <sub>18</sub> O <sub>3</sub>
	Molecular weight:	246.31 g/mol
	Purity by HPLC:	≥99,0%
	Melting point:	171-172°C
	Colorless crystalline solid	

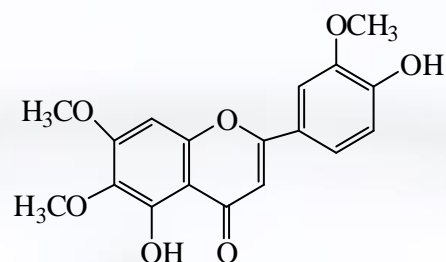
Tectochrysin		
	CAS#	520-28-5
	Synonyms:	[5-hydroxy-7-methoxyflavone], [5-Hydroxy-7-methoxy-2-phenyl-4H-1-benzopyran-4-one], [5-Hydroxy-7-methoxyflavone], [7-Methylchrysin]
	Molecular formula:	C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>
	Molecular weight:	268.26 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	176-178oC
	Yellow powdery solid	

Chrysin		
	CAS#	480-40-0
	Synonyms:	[5,7-dihydroxyflavone]
	Molecular formula:	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>
	Molecular weight:	254.24g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	276-278oC
Yellow powdery solid		

1,8-Cineole		
	CAS#	470-82-6
	Synonyms:	[1,3,3-trimethyl-2-oxabicyclo(2.2.2)octane], [Eucalyptol], [1,8-Epoxy-p-menthane]
	Molecular formula:	C <sub>10</sub> H <sub>18</sub> O
	Molecular weight:	154.25g/mol
	Purity by GC-MS:	≥98%
	Colorless liquid	

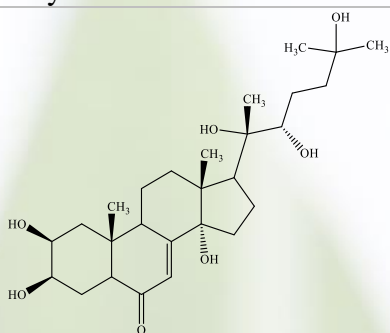
Cytisine		
	CAS#	485-35-8
	Synonyms:	[3-hydroxy-11-norcytisine], [Baptitoxine], [Laburnin], [Sophorine], Ulexine]
	Molecular formula:	C <sub>11</sub> H <sub>14</sub> N <sub>2</sub> O
	Molecular weight:	190.25 g/mol
	Purity by HPLC:	≥98,5%
	Melting point:	154 -157oC
Yellow crystalline solid		

### Cirsilineol



CAS#	41365-32-6
Synonyms:	[5,4'-Dihydroxy-6,7,3'-trimethoxyflavone], [Eupatrin], [Anisomelin], [Fastigenin], [6-Methoxyluteolin 3',7-dimethyl ether]
Molecular formula:	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>
Molecular weight:	344.32 g/mol
Purity by HPLC:	≥99,0%
Melting point:	203-204°C
Yellow powdery solid	

### Ecdysterone



CAS#	5289-74-7
Synonyms:	[2β,3β,14α,20R,22R,25-hexahydroxy-5β(H)-cholest-7-en-6-one], [Commisterone], [Crustecdysone], [beta-Ecdysone], [20-Hydroxyecdysone], [Isoinokosterone], [Polypodine A], [Polypodine C], [Viticosterone]
Molecular formula:	C <sub>27</sub> H <sub>44</sub> O <sub>7</sub>
Molecular weight:	480.64 g/mol
Purity by HPLC:	≥98,5%
Melting point:	241-243°C
Colorless crystalline solid	