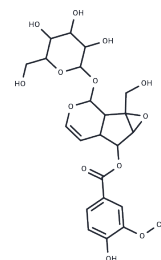


## Picroside II

## Chemical Properties

CAS No. :	39012-20-9
Formula:	C <sub>23</sub> H <sub>28</sub> O <sub>13</sub>
Molecular Weight:	512.46
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Picroside II (Vanilloyl catalpol) is the main active ingredient in iridoid glycosides. It has antioxidant, anti-inflammatory, immune regulatory, anti-virus and other pharmacological activities.
Targets(IC50)	Apoptosis,NF-κB,Reactive Oxygen Species,Influenza Virus,ROS

## Solubility Information

Solubility	DMSO: 250 mg/mL (487.84 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.9 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9514 mL	9.7569 mL	19.5137 mL
5 mM	0.3903 mL	1.9514 mL	3.9027 mL
10 mM	0.1951 mL	0.9757 mL	1.9514 mL
50 mM	0.039 mL	0.1951 mL	0.3903 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang L, et al. Exp Ther Med. 2015 Apr;9(4):1253-1258.

Shim K S, Song H K, Hwang Y H, et al. Ethanol extract of Veronica persica ameliorates house dust mite-induced asthmatic inflammation by inhibiting STAT-3 and STAT-6 activation. Biomedicine & Pharmacotherapy. 2022, 152: 113264

Huang B, Lin B, Zheng H, et al. Discovery of natural products as influenza neuraminidase inhibitors: in silico screening, in vitro validation, and molecular dynamic simulation studies. Molecular Diversity. 2025: 1-17.

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