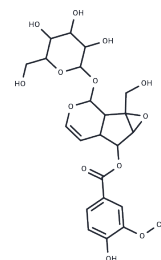


Picroside II

Chemical Properties

| | |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CAS No. : | 39012-20-9 |
| Formula: | C ₂₃ H ₂₈ O ₁₃ |
| 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.

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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