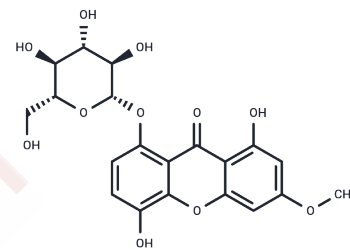


Swertianolin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 23445-00-3 |
| Formula: | C ₂₀ H ₂₀ O ₁₁ |
| Molecular Weight: | 436.37 |
| 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 | 1. Swertianolin (Bellidifolin-8-O-Glucoside), mangiferin, rhodenthoside A-C, isoorientin, isovitexin, and amarogentin would serve as potential chemotaxonomic markers to differentiate Gentianaceae species. 2. Swertianolin and swertiamarin show significant hepatoprotective effect in the liver damage model induced by alpha-naphthylisot hiocyanate. 3. Swertianolin shows anti-acetylcholinesterase activity effects. 4. Swertianolin shows that it can scavenge superoxide and hydroxyl radicals with the studying method of the autoxidation of Pyrogallol and afenton. |
| Targets(IC50) | NF-κB, Antibacterial, NO Synthase, Cholinesterase (ChE), HBV, p38 MAPK, ROS |

Solubility Information

| | |
|---------------------|---|
| Solubility | Pyridine, Methanol, etc.: Soluble, DMSO: 30 mg/mL (68.75 mM), Sonication is recommended. Ethanol: Soluble, (< 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 (4.58 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 | 2.2916 mL | 11.4582 mL | 22.9163 mL |
| 5 mM | 0.4583 mL | 2.2916 mL | 4.5833 mL |
| 10 mM | 0.2292 mL | 1.1458 mL | 2.2916 mL |
| 50 mM | 0.0458 mL | 0.2292 mL | 0.4583 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

Xiang H C , Min Z S , Hong Z D , et al. Voltammetric Behavior of Swertianolin and Its Scavenging to Free Radicals[J]. Journal of Liaoning Normal University, 2003.

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