

Pinocembrin

Chemical Properties

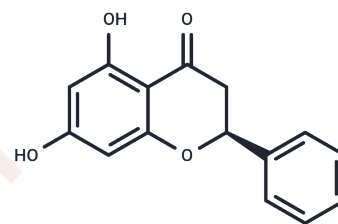
CAS No. : 480-39-7

Formula: C₁₅H₁₂O₄

Molecular Weight: 256.25

Storage: Keep away from direct sunlight, Store under nitrogen
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	Pinocembrin (5,7-Dihydroxyflavanone) is a flavanone, a type of flavonoid. It is an antioxidant found in damiana, honey, fingerroot, and propolis.
Targets(IC50)	NF-κB, Reactive Oxygen Species, Antibacterial, Autophagy, ROS

Solubility Information

Solubility	DMSO: 240 mg/mL (936.59 mM), Sonication is recommended. Ethanol: 100 mg/mL (390.24 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: 1 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	3.9024 mL	19.5122 mL	39.0244 mL
5 mM	0.7805 mL	3.9024 mL	7.8049 mL
10 mM	0.3902 mL	1.9512 mL	3.9024 mL
50 mM	0.078 mL	0.3902 mL	0.7805 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

Saad MA, et al. Pharmacol Rep. 2015 Feb;67(1):115-22.

Tang X, Liu L, Li Y, et al. Chemical profiling and investigation of molecular mechanisms underlying anti-hepatocellular carcinoma activity of extracts from Polygonum perfoliatum L. Biomedicine & Pharmacotherapy. 2023, 166: 115315.

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