

Nepitrin

Chemical Properties

CAS No. : 569-90-4

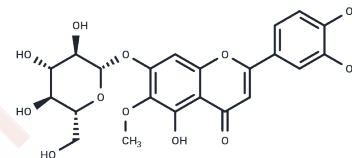
Formula: C₂₂H₂₂O₁₂

Molecular Weight: 478.40

Keep away from direct sunlight

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. Nepitrin (Nepetin-7-glucoside) has antioxidant activity in human HL6 cells assessed as reduction of cytochrome-c release, DPPH free radical scavenging activity, and inhibition of TPA-induced free radical formation.
Targets(IC50)	Antioxidant

Solubility Information

Solubility	DMSO: 145.00 mg/mL (303.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (20.9 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (4.18 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	2.0903 mL	10.4515 mL	20.903 mL
5 mM	0.4181 mL	2.0903 mL	4.1806 mL
10 mM	0.209 mL	1.0452 mL	2.0903 mL
50 mM	0.0418 mL	0.209 mL	0.4181 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

Jin X F , Lu Y H , Wei D Z , et al. Chemical fingerprint and quantitative analysis of *Salvia plebeia* R.Br. by high-performance liquid chromatography[J]. *J Pharm Biomed Anal*, 2008, 48(1):100-104.

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