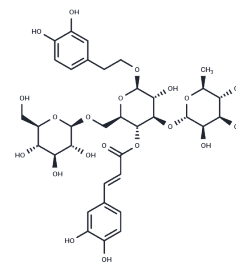


Echinacoside

Chemical Properties

CAS No. :	82854-37-3
Formula:	C ₃₅ H ₄₆ O ₂₀
Molecular Weight:	786.73
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Echinacoside is a natural polyphenolic compound with various kinds of pharmacological activities, such as anti-inflammatory, antioxidative, hepatoprotective, neuroprotective, nitric oxide radical-scavenging and vasodilative ones.
Targets(IC50)	Reactive Oxygen Species, ROS, Wnt/beta-catenin

Solubility Information

Solubility	DMSO: 240 mg/mL (305.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	PBS: 100 mg/mL (127.11 mM), Solution. <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	1.2711 mL	6.3554 mL	12.7108 mL
5 mM	0.2542 mL	1.2711 mL	2.5422 mL
10 mM	0.1271 mL	0.6355 mL	1.2711 mL
50 mM	0.0254 mL	0.1271 mL	0.2542 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

Zhang D, et al. Int J Biol Macromol. 2014 Sep 2;72C:243-253.

Dai Z, Hu T, Wei J, et al. Network-Based Identification and Mechanism Exploration of Active Ingredients Against Alzheimer's Disease via Targeting Endoplasmic Reticulum Stress from Traditional Chinese Medicine. Computational and Structural Biotechnology Journal. 2023

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