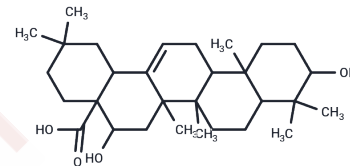


Echinocystic acid

Chemical Properties

CAS No. :	510-30-5
Formula:	C ₃₀ H ₄₈ O ₄
Molecular Weight:	472.70
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Echinocystic acid (EA), a natural triterpene enriched in various herbs, shows a range of pharmacological activities including anti-inflammatory and antioxidant effects.
Targets(IC50)	Apoptosis,Antioxidant,Reactive Oxygen Species,ROS

Solubility Information

Solubility	DMSO: 31.25 mg/mL (66.11 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: 3.13 mg/mL (6.62 mM),Suspension. 10% DMSO+90% Saline: < 3.13 mg/mL (6.62 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 2.5 mg/mL (5.29 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	2.1155 mL	10.5775 mL	21.1551 mL
5 mM	0.4231 mL	2.1155 mL	4.231 mL
10 mM	0.2116 mL	1.0578 mL	2.1155 mL
50 mM	0.0423 mL	0.2116 mL	0.4231 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

Lai P, Liu Y. Life Sci. 2014 Oct 2;114(2):62-9.

Wei H, Guo J, Sun X, et al. Discovery of Natural Ursane-type SENP1 Inhibitors and the Platinum Resistance Reversal Activity Against Human Ovarian Cancer Cells: A Structure-Activity Relationship Study. Journal of Natural Products. 2022

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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