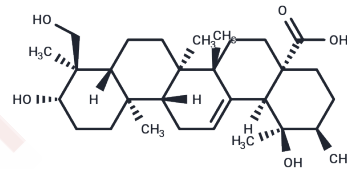


Rotundic acid

Chemical Properties

CAS No. :	20137-37-5
Formula:	C ₃₀ H ₄₈ O ₅
Molecular Weight:	488.70
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	Rotundic acid (Rutundic acid), a natural compound, exhibit cytotoxic activities toward human hepatocellular carcinoma (HepG2), malignant melanoma (A375), SCLC (NCI-H446), breast cancer (MCF-7), and colon cancer (HT-29) cell lines.
Targets(IC50)	Apoptosis,Akt,mTOR,p38 MAPK

Solubility Information

Solubility	DMSO: 245.00 mg/mL (501.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.12 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	2.0462 mL	10.2312 mL	20.4625 mL
5 mM	0.4092 mL	2.0462 mL	4.0925 mL
10 mM	0.2046 mL	1.0231 mL	2.0462 mL
50 mM	0.0409 mL	0.2046 mL	0.4092 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

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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