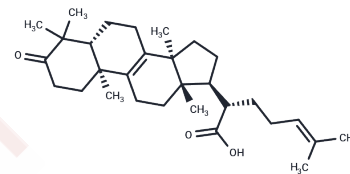


β -Elemonic Acid

Chemical Properties

CAS No. :	28282-25-9
Formula:	C ₃₀ H ₄₆ O ₃
Molecular Weight:	454.68
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	β -Elemonic Acid (3-Oxotirucallenoic Acid) exhibits anti-inflammatory effects. Beta-Elemonic acid inhibits proliferation by inducing hypoploid cells and cell apoptosis, the anticancer effects of beta-Elemonic acid are related to the MAPK signaling pathway, ROS activation and glutathione depletion in human A549 lung cancer cells. Beta-Elemonic acid exhibits prolyl endopeptidase inhibitory activities.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Endogenous Metabolite, COX, Prolyl Endopeptidase (PREP), ROS

Solubility Information

Solubility	DMSO: 45.45 mg/mL (99.96 μ M), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.4 μ M), 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	2.1993 mL	10.9967 mL	21.9935 mL
5 mM	0.4399 mL	2.1993 mL	4.3987 mL
10 mM	0.2199 mL	1.0997 mL	2.1993 mL
50 mM	0.044 mL	0.2199 mL	0.4399 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

Wu T T , Lu C L , Lin H I , et al. β -Elemonic acid inhibits the cell proliferation of human lung adenocarcinoma A549 cells: The role of MAPK, ROS activation and glutathione depletion[J]. Oncology Reports, 2016, 35(1):227-234.

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