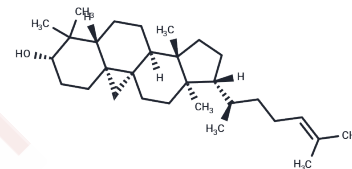


Cycloartenol

Chemical Properties

CAS No. :	469-38-5
Formula:	C ₃₀ H ₅₀ O
Molecular Weight:	426.72
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	Cycloartenol (Handianol) is a plant sterol compound found widely in plants with anti-inflammatory, anti-tumor, antioxidant, and antibacterial properties. It inhibits glioma cell migration and p38 MAPK phosphorylation, and is used in plant growth and development studies.
Targets(IC50)	Apoptosis, p38 MAPK
In vitro	Cycloartenol(0-100 μM) inhibited proliferation and colony-forming potential of glioma U87 cells in a concentration-dependent manner. [1]

Solubility Information

Solubility	DMSO: 2 mg/mL (4.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3435 mL	11.7173 mL	23.4346 mL
5 mM	0.4687 mL	2.3435 mL	4.6869 mL
10 mM	0.2343 mL	1.1717 mL	2.3435 mL
50 mM	0.0469 mL	0.2343 mL	0.4687 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

Niu H, et al. Cycloartenol exerts anti-proliferative effects on Glioma U87 cells via induction of cell cycle arrest and p38 MAPK-mediated apoptosis. J BUON. 2018 Nov-Dec;23(6):1840-1845.

Ikeda I, et al. Effects of cycloartenol on absorption and serum levels of cholesterol in rats. J Nutr Sci Vitaminol (Tokyo). 1985 Jun;31(3):375-84.

Zhang ZL, et al. [Research advance of functional plant pharmaceutical cycloartenol about pharmacological and physiological activity]. Zhongguo Zhong Yao Za Zhi. 2017 Feb;42(3):433-437. Chinese.

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