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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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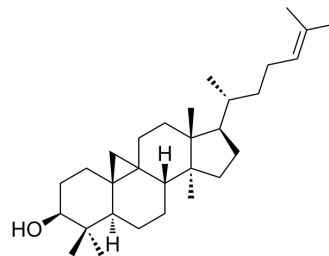
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Cycloartenol

Cat. No.:	HY-N7255
CAS No.:	469-38-5
Molecular Formula:	C ₃₀ H ₅₀ O
Molecular Weight:	426.72
Target:	p38 MAPK; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (11.72 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.5 mg/mL (1.17 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 0.5 mg/mL (1.17 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.5 mg/mL (1.17 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Cycloartenol, a phytosterol compound, is one of the key precursor substances for biosynthesis of numerous sterol compounds. Cycloartenol inhibits the migration of glioma cells and suppresses the phosphorylation of the p38 MAP kinase. Cycloartenol has a variety of pharmacological activities such as anti-inflammatory, anti-tumor, antioxidant, antibiosis and anti-alzheimer's disease. Cycloartenol also plays an important role in the process of plant growth and development ^{[1][2]} .
In Vitro	Cycloartenol inhibits the proliferation and the colony formation potential of the glioma U87 cells in a concentration-dependent manner. The antiproliferative effects are found to be due to induction of Sub-G1 cell cycle arrest and triggering of apoptosis. Cycloartenol also causes significant alteration in the expression of Bax and Bcl-2 ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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