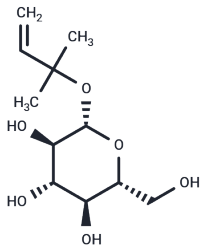
Data Sheet (Cat.No.TN1532)

TargetMol

Crenulatin

Chemical Properties



CAS No. : 63026-02-8

Formula: C11H20O6

Molecular Weight: 248.27

Storage: Keep away from direct sunlight
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	Crenulatin, a natural gallotannin, has a bi-directional effect on apoptosis in mouse cerebral microvascular endothelial cells, acting through the regulation of Fas/Bcl-2 expression and caspase-3 activity.
Targets(IC50)	Bcl-2 Family,Caspase,Fatty Acid Synthase
In vitro	In mouse cerebral microvascular endothelial cells (bEnd.3), Crenulatin showed dose-dependent bidirectional effects on apoptosis after 24 hours of treatment. At 25mg/L, Crenulatin inhibited apoptosis (with decreased Fas and caspase-3 expression and increased Bcl-2 expression). At 100mg/L, Crenulatin promoted apoptosis (with increased Fas and caspase-3 expression and decreased Bcl-2 expression)[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (322.23 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: 3.3 mg/mL (13.29 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0279 mL	20.1394 mL	40.2787 mL
5 mM	0.8056 mL	4.0279 mL	8.0557 mL
10 mM	0.4028 mL	2.0139 mL	4.0279 mL
50 mM	0.0806 mL	0.4028 mL	0.8056 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

Qian R, et al. Dual-direction effect of crenulatin on apoptosis of cerebral microvascular endothelial cells and it's mechanism[J]. Chinese Journal of Pathophysiology, 2005: 2086-2090.