Data Sheet (Cat.No.T3796)

TargetMol

Betulinaldehyde

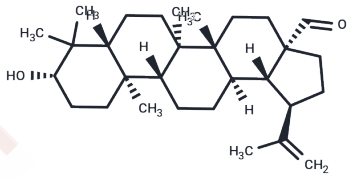
Chemical Properties

CAS No. : 13159-28-9

Formula: C30H48O2

Molecular Weight: 440.7

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	Betulinaldehyde (Betunal) has the inhibition of Saccharomyces sp and alpha-glucosidase. Betulinaldehyde induces apoptosis in mouse B16 2F2 cells. Betulinaldehyde has anti-proliferative activity against mouse +SA mammary epithelial cells.
Targets(IC50)	Apoptosis,Antibacterial

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone: Soluble, DMSO: 1 mg/mL (2.27 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: 1 mg/mL (2.27 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	2.2691 mL	11.3456 mL	22.6912 mL
5 mM	0.4538 mL	2.2691 mL	4.5382 mL
10 mM	0.2269 mL	1.1346 mL	2.2691 mL
50 mM	0.0454 mL	0.2269 mL	0.4538 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

Chung PY, Chung LY, Navaratnam P. Identification, by gene expression profiling analysis, of novel gene targets in Staphylococcus aureus treated with betulinaldehyde. Res Microbiol. 2013 May;164(4):319-26.
Chung PY, Chung LY, Navaratnam P. Transcriptional profiles of the response of methicillin-resistant Staphylococcus aureus to pentacyclic triterpenoids. PLoS One. 2013;8(2):e56687.

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