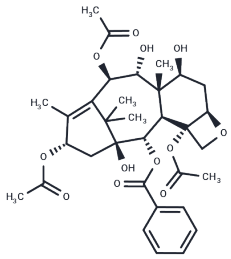
Data Sheet (Cat.No.T5132)

TargetMol

9-dihydro-13-acetylbaccatin III

Chemical Properties



CAS No. : 142203-65-4

Formula: C33H42O12

Molecular Weight: 630.68

Appearance: Solid

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	9-dihydro-13-acetylbaccatin III (9-DHAB III)is an apoptosis inducer. It shows cytotoxicity against the MCF7 cell line and drug-resistant cell line MCF7-ADR.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	DMSO: 50 mg/mL (79.28 mM),Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.17 mM),Sonication is recommended. Ethanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5856 mL	7.928 mL	15.8559 mL
5 mM	0.3171 mL	1.5856 mL	3.1712 mL
10 mM	0.1586 mL	0.7928 mL	1.5856 mL
50 mM	0.0317 mL	0.1586 mL	0.3171 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.

Reference

Nikolakakis A, et al. Semi-synthesis of an O-glycosylated docetaxel analogue. Bioorg Med Chem. 2003 Apr 3;11(7):1551-6.

Zhang Y, Wiese L, Fang H, et al.Synthetic biology identifies the minimal gene set required for Paclitaxel biosynthesis in a plant chassis.Molecular Plant.2023

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