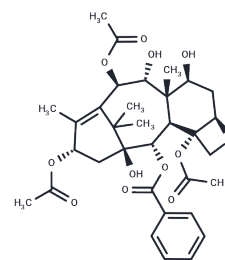


## 9-dihydro-13-acetylbaccatin III

### Chemical Properties

CAS No. :	142203-65-4
Formula:	C <sub>33</sub> H <sub>42</sub> O <sub>12</sub>
Molecular Weight:	630.68
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	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. Ethanol: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.17 mM), Sonication is recommended. <i>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.</i>

### 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.

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

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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