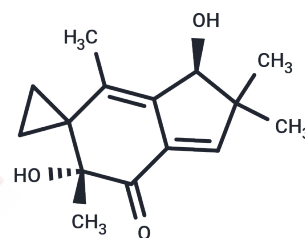


Illudin M

Chemical Properties

CAS No. :	1146-04-9
Formula:	C ₁₅ H ₂₀ O ₃
Molecular Weight:	248.32
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Illudin M is a cytotoxic sesquiterpene from the fungus <i>O. illudens</i> that alkylates DNA. It has a cytotoxicity of 6-100 nM against HL-60 human leukemia cells. Illudin M has anticancer activity and is a pre-drug for the synthesis of anticancer compounds.
Targets(IC50)	Apoptosis, DNA Alkylator/Crosslinker
In vitro	Illudin M (0.01, 1 and 10 μM; 24-120 h; Panc-1, HT-29, HFs) showed a comparable induction of apoptosis in the tumor cells (86% in Panc-1; 48% in HT-29), but an even greater one in the HF (89%) in vitro.[1]

Solubility Information

Solubility	DMSO: Soluble DMF: Soluble Methanol: Soluble Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0271 mL	20.1353 mL	40.2706 mL
5 mM	0.8054 mL	4.0271 mL	8.0541 mL
10 mM	0.4027 mL	2.0135 mL	4.0271 mL
50 mM	0.0805 mL	0.4027 mL	0.8054 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

Schobert R, et al. Conjugates of the fungal cytotoxin illudin M with improved tumour specificity. *Bioorg Med Chem.* 2008 Sep 15;16(18):8592-7.

Le P, et al. A Chemical Proteomic Analysis of Illudin-Interacting Proteins. *Chemistry.* 2019 Sep 25;25(54):12644-12651.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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