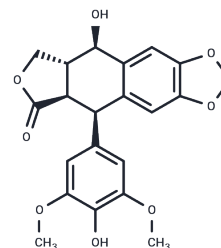


4'-Demethylpodophyllotoxin

Chemical Properties

CAS No. :	40505-27-9
Formula:	C ₂₁ H ₂₀ O ₈
Molecular Weight:	400.38
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	4'-Demethylpodophyllotoxin is isolated from the herb of <i>Dysosma pleiantha</i> (Hance) Woodson with remarkable cytotoxic potential in diverse cancer cell lines.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 235 mg/mL (586.94 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: 2 mg/mL (5 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	2.4976 mL	12.4881 mL	24.9763 mL
5 mM	0.4995 mL	2.4976 mL	4.9953 mL
10 mM	0.2498 mL	1.2488 mL	2.4976 mL
50 mM	0.050 mL	0.2498 mL	0.4995 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

Zilla M K , Nayak D , Amin H , et al. 4'-Demethyl-deoxypodophyllotoxin glucoside isolated from Podophyllum hexandrum exhibits potential anticancer activities by altering Chk-2 signaling pathway in MCF-7 breast cancer cells[J]. Chemico-Biological Interactions, 2014, 224:100-107.

Liu J, Luo D, Chen X, et al. 4'-Demethylpodophyllotoxin functions as a mechanism-driven therapy by targeting the PI3K-AKT pathway in Colorectal cancer. Translational Oncology. 2025, 51: 102199.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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