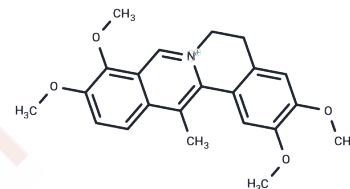


Dehydrocorydaline

Chemical Properties

CAS No. :	30045-16-0
Formula:	C ₂₂ H ₂₄ N ₂ O ₄
Molecular Weight:	366.43
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	1. Dehydrocorydaline (13-Methylpalmatine) exerts anti-metastatic potential via suppression of MMPs and Bcl-2 signaling in NSC-LC cells. 2. Dehydrocorydaline stimulates p38 MAPK activation, which can enhance heterodimerization of MyoD and E proteins, thus resulting in MyoD activation and myoblast differentiation. 3. Dehydrocorydaline shows antiplatelet effects, it inhibits thrombin-induced platelet aggregation in a low dose (IC ₅₀ = 34.914 ug/mL). 4. Dehydrocorydaline has anti-inflammatory and antinociceptive effects. 5. Dehydrocorydaline inhibits MCF-7 cell proliferation by inducing apoptosis mediated by regulating Bax/Bcl-2, activating caspases as well as cleaving PARP.
Targets(IC ₅₀)	Bcl-2 Family,Caspase,Parasite,Autophagy,p38 MAPK,PARP

Solubility Information

Solubility	DMSO: 28.6 mg/mL (78.05 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (13.65 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	2.729 mL	13.6452 mL	27.2903 mL
5 mM	0.5458 mL	2.729 mL	5.4581 mL
10 mM	0.2729 mL	1.3645 mL	2.729 mL
50 mM	0.0546 mL	0.2729 mL	0.5458 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

Lee J , Sohn E J , Yoon S W , et al. Anti-Metastatic Effect of Dehydrocorydaline on H1299 Non-Small Cell Lung Carcinoma Cells via Inhibition of Matrix Metalloproteinases and B Cell Lymphoma 2[J]. Phytotherapy Research, 2017, 31(3):441-448.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481