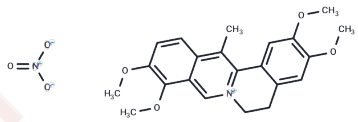
Data Sheet (Cat.No.T2S2362)

TargetMol

Dehydrocorydaline nitrate

Chemical Properties



CAS No. : 13005-09-9

Formula: C22H24N2O7

Molecular Weight: 428.44

Storage: Keep away from moisture,Store at low temperature
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(DHC) not only inhibits antibody-mediated allergic reactions but also influences cell-mediated allergic reactions, and the inhibitory effect of Corydalis Tuber on allergic reactions may be partially attributed to DHC. 2. Dehydrocorydaline can inhibit elevated mitochondrial membrane potential in lipopolysaccharide-stimulated macrophages. 3. Dehydrocorydaline has antinociceptive effects in mouse models of inflammatory pain, the effects involve the opioid receptor and inflammatory cytokines. 4. Dehydrocorydaline has anti-inflammatory activity.
Targets(IC50)	Bcl-2 Family,Caspase,Parasite,Autophagy,p38 MAPK,PARP

Solubility Information

Solubility	DMSO: 27.5 mg/mL (64.19 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: 2 mg/mL (4.67 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.334 mL	11.6702 mL	23.3405 mL
5 mM	0.4668 mL	2.334 mL	4.6681 mL
10 mM	0.2334 mL	1.167 mL	2.334 mL
50 mM	0.0467 mL	0.2334 mL	0.4668 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

Ishiguro K , Ando T , Maeda O , et al. Dehydrocorydaline inhibits elevated mitochondrial membrane potential in lipopolysaccharide-stimulated macrophages[J]. International Immunopharmacology, 2011, 11(9):0-1367.