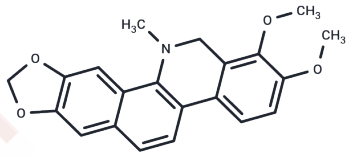
Data Sheet (Cat.No.T3S0057)

TargetMol

Dihydrochelerythrine

Chemical Properties



CAS No. : 6880-91-7

Formula: C21H19NO4

Molecular Weight: 349.38

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	1. Dihydrochelerythrine (12,13-Dihydrochelerythrine) is nontoxic up to 5μM concentration. 2. Dihydrochelerythrine has antifungal activity against pathogenic plant fungi. 3. Dihydrochelerythrine has potential application in the therapy of serious infection caused by I. multifiliis. 4. Dihydrochelerythrine affects cell cycle distribution, activates mitochondrial apoptotic pathway, and induces apoptosis and necrosis in HL-6 cells.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 37.5 mg/mL (107.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 2.14 mg/mL (6.13 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.14 mg/mL (6.13 mM),Solution. *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	2.8622 mL	14.3111 mL	28.6221 mL
5 mM	0.5724 mL	2.8622 mL	5.7244 mL
10 mM	0.2862 mL	1.4311 mL	2.8622 mL
50 mM	0.0572 mL	0.2862 mL	0.5724 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

Feng G , Zhang J , Liu Y Q . Inhibitory activity of dihydrosanguinarine and dihydrochelerythrine against phytopathogenic fungi[J]. Natural Product Research, 2011, 25(11):1082-1089.