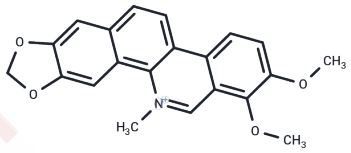
Data Sheet (Cat.No.T6S0052)

TargetMol

Chelerythrine

Chemical Properties



CAS No. : 34316-15-9

Formula: C21H18NO4

Molecular Weight: 348.37

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	1. Chelerythrine (Broussonpapyrine) may have antimanic effect . 2. Chelerythrine can inhibit telomerase activity. 3. Chelerythrine is a well-known protein kinase C inhibitor . 4. Chelerythrine has potential antiproliferative and antitumor effects.
Targets(IC50)	Apoptosis,Bcl-2 Family,Autophagy,PKC

Solubility Information

Solubility	DMSO: 11 mg/mL (31.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8705 mL	14.3526 mL	28.7051 mL
5 mM	0.5741 mL	2.8705 mL	5.741 mL
10 mM	0.2871 mL	1.4353 mL	2.8705 mL
50 mM	0.0574 mL	0.2871 mL	0.5741 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.

Reference

Kumar S , Acharya A . Chelerythrine induces reactive oxygen species-dependent mitochondrial apoptotic pathway in a murine T cell lymphoma[J]. Tumor Biology, 2013, 35(1):129-140.

Qin X, Liu B, Gao F, et al. Gluconolactone Alleviates Myocardial Ischemia/Reperfusion Injury and Arrhythmias via Activating PKCε/Extracellular Signal-Regulated Kinase Signaling. Frontiers in Physiology. 2022: 455.

Cho O, Lee J W, Kim H S, et al.Chelerythrine, a novel small molecule targeting IL-2, inhibits melanoma progression by blocking the interaction between IL-2 and its receptor.Life Sciences.2023: 121559.

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