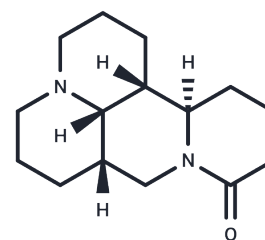


Matrine

Chemical Properties

CAS No. :	519-02-8
Formula:	C ₁₅ H ₂₄ N ₂ O
Molecular Weight:	248.36
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Matrine (Vegard), an alkaloid isolated from the Sophora genus, acts as a kappa opioid receptor agonist.
Targets(IC50)	Mitophagy,Ferroptosis,Opioid Receptor,Autophagy
In vitro	In human non-small cell lung cancer A549 and hepatocellular carcinoma SMMC-7721 cells, Matrine inhibits cell growth. Particularly, in A549 cells, Matrine induces apoptosis by reducing the Bcl-2 / Bax protein ratio.
In vivo	In mice, the median lethal dose (LD50) of Matrine administered via intraperitoneal injection is 157 mg/kg.

Solubility Information

Solubility	Ethanol: 49 mg/mL (197.29 mM), H ₂ O: 11 mg/mL (44.29 mM),Heating is recommended. DMSO: 45 mg/mL (181.18 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0264 mL	20.1321 mL	40.2641 mL
5 mM	0.8053 mL	4.0264 mL	8.0528 mL
10 mM	0.4026 mL	2.0132 mL	4.0264 mL
50 mM	0.0805 mL	0.4026 mL	0.8053 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

Zhang Y, et al. Cytotechnology, 2009, 59(3), 191-200.

Higashiyama K, et al. Biol Pharm Bull, 2005, 28(5), 845-848.

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