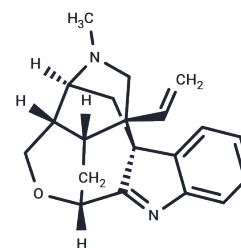


Koumine

Chemical Properties

CAS No. :	1358-76-5
Formula:	C ₂₀ H ₂₂ N ₂ O
Molecular Weight:	306.40
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. Koumine can treat the diabetic neuropathy. 2. Koumine has antineoplastic effect, may be a future breast cancer chemotherapeutic agent. 3. Koumine has a significant analgesic effect in rodent behavioral models of inflammatory and neuropathic pain, the mechanism may be associated with the upregulation of allopregnanolone in the spinal cord.
Targets(IC50)	Bcl-2 Family,Others

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 29.4 mg/mL (95.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (6.53 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	3.2637 mL	16.3185 mL	32.6371 mL
5 mM	0.6527 mL	3.2637 mL	6.5274 mL
10 mM	0.3264 mL	1.6319 mL	3.2637 mL
50 mM	0.0653 mL	0.3264 mL	0.6527 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

Zhang X , Chen Y , Gao B , et al. Apoptotic Effect of Koumine on Human Breast Cancer Cells and the Mechanism Involved[J]. Cell Biochemistry & Biophysics, 2015, 72(2):411-416.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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