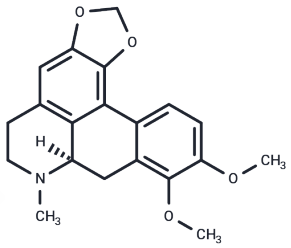
Data Sheet (Cat.No.T2S2215)

TargetMol

Crebanine

Chemical Properties



CAS No. : 25127-29-1

Formula: C20H21NO4

Molecular Weight: 339.39

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. Crebanine iv 5mg/kg can eonvert BaCl_2-induced arrhythmia into sinus rhythm in rats, and can significantly increase the tolerant dose of aconitine to produce ventrieular fibrillation(VF) and cardiac arrest (CA) in rata. 2. Crebanine can also decrease the incidence of VF and CA by CaCl_2 in rats and by chloroform in mice, but has no proteetive effects on ouahain-indueed arrhythmias in guinea pigs. 3. Crebanine has potential utility of crebanine in the development of neurodegenerative therapy, might be used as the starting point to develop a drug for Alzheimer's disease. 4. Crebanine has anti-cancer activity, can inhibit the proliferation of human leukemic cells (HL-6, U937 and K562), human fibrosarcoma cells (HT18) and cervix cancer cell lines (KB-3-1 and KB-V1; it mediates cell cycle arrest at G/G1 phase and this was associated with down-regulation of cyclins A and D.
Targets(IC50)	Apoptosis,ERK,NF-κB,Akt,Antibacterial,NO Synthase,AChR,Interleukin,p38 MAPK,ROS,TNF

Solubility Information

Solubility	DMSO: 11 mg/mL (32.41 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 (5.89 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	2.9465 mL	14.7323 mL	29.4646 mL
5 mM	0.5893 mL	2.9465 mL	5.8929 mL
10 mM	0.2946 mL	1.4732 mL	2.9465 mL
50 mM	0.0589 mL	0.2946 mL	0.5893 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

Xiao-Shan H , Qing L , Yun-Shu M , et al. Crebanine inhibits voltage-dependent Na+ current in guinea-pig ventricular myocytes[J]. Chin J Nat Med, 2014.