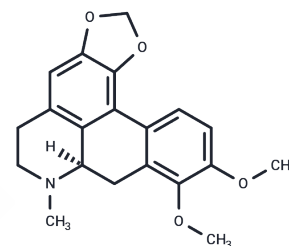


## Crebanine

## Chemical Properties

CAS No. :	25127-29-1
Formula:	C <sub>20</sub> H <sub>21</sub> NO <sub>4</sub>
Molecular Weight:	339.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	1. Crebanine iv 5mg/kg can convert BaCl <sub>2</sub> -induced arrhythmia into sinus rhythm in rats, and can significantly increase the tolerant dose of aconitine to produce ventricular fibrillation(VF) and cardiac arrest (CA) in rats. 2. Crebanine can also decrease the incidence of VF and CA by BaCl <sub>2</sub> in rats and by chloroform in mice, but has no protective effects on ouabain-induced 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,Akt

## 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)
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## 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.

Reference

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