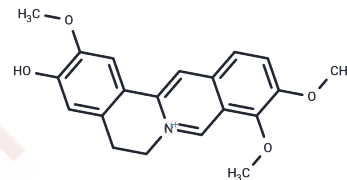


Jatrorrhizine

Chemical Properties

CAS No. :	3621-38-3
Formula:	C ₂₀ H ₂₀ NO ₄
Molecular Weight:	338.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Jatrorrhizine (neproten) is a protoberberine alkaloid isolated from <i>Enantia chlorantha</i> (Annonaceae) and other species. It was found to have antimicrobial and antifungal activity. It binds and noncompetitively inhibits monoamine oxidase (IC ₅₀ 4 micromolar for MAO-A and 62 for MAO-B).
Targets(IC ₅₀)	MAO,5-HT Receptor,Antibacterial,Cholinesterase (ChE)

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 3.38 mg/mL (9.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9553 mL	14.7763 mL	29.5526 mL
5 mM	0.5911 mL	2.9553 mL	5.9105 mL
10 mM	0.2955 mL	1.4776 mL	2.9553 mL
50 mM	0.0591 mL	0.2955 mL	0.5911 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

- Wu H1, He K2, Wang Y2, et al. The antihypercholesterolemic effect of jatrorrhizine isolated from *Rhizoma Coptidis*. *Phytomedicine*. 2014 Sep 25;21(11):1373-81.
- Kim YJ, Kim TI, Lee A, et al. *Sinomenium acutum* Modulates Platelet Aggregation and Thrombus Formation by Regulating the Glycoprotein VI-Mediated Signalosome in Mice. *Pharmaceuticals*. 2023, 17(1): 6.
- Li J1, Li J, Jiao Y, Dong C. Spectroscopic analysis and molecular modeling on the interaction of jatrorrhizine with human serum albumin (HSA). *Spectrochim Acta A Mol Biomol Spectrosc*. 2014 Jan 24;118:48-54.
- Mi R1, Hu YJ, Fan XY, Ouyang Y, Bai AM. Exploring the site-selective binding of jatrorrhizine to human serum albumin: spectroscopic and molecular modeling approaches. *Spectrochim Acta A Mol Biomol Spectrosc*. 2014 Jan 3;117:163-9.

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