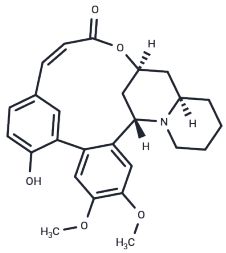
Data Sheet (Cat.No.T38327)

TargetMol

Cryogenine

Chemical Properties



CAS No. : 10308-13-1

Formula: C26H29NO5

Molecular Weight: 435.52

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	Cryogenine is an alkaloid originally isolated from H. salicifolia that exhibits anti-inflammatory activity. It inhibits prostaglandin synthetase (IC50 = 424 μM) and, at a dosage of 100 mg/kg per day (p.o.), reduces paw edema and the mean arthritic index in a rat model of adjuvant-induced polyarthritis.
Targets(IC50)	Others,PGE Synthase

Solubility Information

Solubility	DMF: 30 mg/mL (68.88 mM),Sonication is recommended. DMSO: 30 mg/mL (68.88 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2961 mL	11.4805 mL	22.9611 mL
5 mM	0.4592 mL	2.2961 mL	4.5922 mL
10 mM	0.2296 mL	1.1481 mL	2.2961 mL
50 mM	0.0459 mL	0.2296 mL	0.4592 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

Lema, W.J., Blankenship, J.W., and Malone, M.H. Prostaglandin synthetase inhibition by alkaloids of Heimia salicifolia. J. Ethnopharmacol. 15(2), 161-167 (1986).

Kosersky, D.S., Brown, J.K., and Malone, M.H. Effects of cryogenine on adjuvant-induced arthritis and serum turbidity in rats. J. Pharm. Sci. 62(12), 1965-1971 (1973).

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