Data Sheet (Cat.No.T5807)

TargetMol

Stylopine hydrochloride

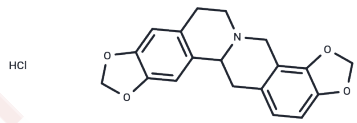
Chemical Properties

CAS No. : 96087-21-7

Formula: C19H18ClNO4

Molecular Weight: 359.8

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	Stylopine is a protoberberine-type alkaloid that has potential biological activities, including anti-inflammatory activity.
Targets(IC50)	NOS,Parasite,COX
In vitro	Stylopine is a major component of the leaf of Chelidonium majus L. (Papaveraceae), which has been used for the removal of warts, papillomas and condylomas, as well as the treatment of liver disease, in oriental countries.?Stylopine per se had no cytotoxic effect in unstimulated RAW 264.7 cells, but concentration-dependently reduced nitric oxide (NO), prostaglandin E2 (PGE2), tumor necrosis factor-alpha (TNF-alpha) and interleukin-1beta (IL-1beta), and the IL-6 production and cyclooxygenase-2 (COX-2) activity caused by the LPS stimulation.?The levels of inducible nitric oxide synthase (iNOS) and COX-2 protein expressions were markedly suppressed by stylopine in a concentration dependent manner.?Suggest that stylopine suppress the NO and PGE2 production in macrophages by inhibiting the iNOS and COX-2 expressions.?These biological activities of stylopine may contribute to the anti-inflammatory activity of Chelidonium majus.

Solubility Information

Solubility	DMSO: 3.6 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7793 mL	13.8966 mL	27.7932 mL
5 mM	0.5559 mL	2.7793 mL	5.5586 mL
10 mM	0.2779 mL	1.3897 mL	2.7793 mL
50 mM	0.0556 mL	0.2779 mL	0.5559 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

Jang S , Kim B H , Lee W Y , et al. Stylopine fromChelidonium majusinhibits LPS-Induced inflammatory mediators in RAW 264.7 cells[J]. Archives of Pharmacal Research (Seoul), 2004, 27(9):923-929.