(±)-Stylopine

Cat. No.: HY-N0924

CAS No.: 4312-32-7

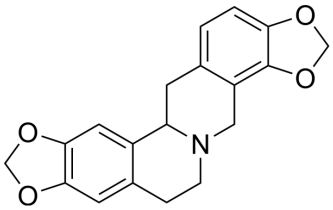
Molecular Formula: $C_{19}H_{17}NO_4$

Molecular Weight: 323.34

Target: Parasite

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMF : 4 mg/mL (12.37 mM; ultrasonic and warming and heat to 60°C)
DMSO : 2.5 mg/mL (7.73 mM; ultrasonic and warming and heat to 60°C)
Acetone : 1 mg/mL (3.09 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0927 mL	15.4636 mL	30.9272 mL
	5 mM	0.6185 mL	3.0927 mL	6.1854 mL
	10 mM	0.3093 mL	1.5464 mL	3.0927 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 20% HP-β-CD in saline
Solubility: 12.5 mg/mL (38.66 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(±)-Stylopine (Tetrahydrocoptisine) is an alkaloid compound originally isolated from Corydalis tubers that exhibits anti-inflammatory and anti-parasitic activities[1][2].

REFERENCES

[1]. Li W, et al. Anti-inflammatory effect of tetrahydrocoptisine from Corydalis impatiens is a function of possible inhibition of TNF-α, IL-6 and NO production in lipopolysaccharide-stimulated peritoneal macrophages through inhibiting NF-κB activation and MAPK pathway. Eur J Pharmacol. 2013 Sep 5;715(1-3):62-71.

[2]. Li W, et al. Protective effect of tetrahydrocoptisine against ethanol-induced gastric ulcer in mice. Toxicol Appl Pharmacol. 2013 Oct 1;272(1):21-9.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA