

Tetrahydrocoptisine

Chemical Properties

CAS No. : 4312-32-7

Formula: C₁₉H₁₇NO₄

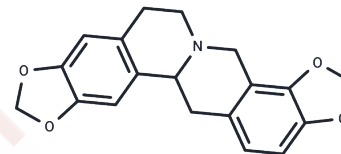
Molecular Weight: 323.34

Keep away from direct sunlight, Keep away from moisture

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	1. Tetrahydrocoptisine (STYLOPINE) has effective effects in suppressing inflammation. 2. Tetrahydrocoptisine possesses a protective effect on LPS-induced ALI through inhibiting of NF-κB signaling pathways, which may involve the inhibition of pulmonary inflammatory process. 3. Tetrahydrocoptisine has gastroprotective activity, is attributed to reducing NO production and adjusting the pro-inflammatory cytokine, inhibited neutrophil accumulation and NF-κB expression. 4. Tetrahydrocoptisine is an active anti-inflammatory constituent by inhibition of TNF-α, IL-6 and NO production possibly via down-regulation of NF-κB activation, phospho-ERK1/2 and phospho-p38MAPK signal pathways.
Targets(IC50)	ERK,NF-κB,NO Synthase,Parasite,Interleukin,p38 MAPK,PERK

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 4.17 mg/mL (12.9 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	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
50 mM	0.0619 mL	0.3093 mL	0.6185 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

Li W , Huang H , Niu X , et al. Tetrahydrocoptisine Protects Rats from LPS-Induced Acute Lung Injury[J]. Inflammation, 2014, 37(6):2106-2115.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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