Product Data Sheet

Product Name: Tetrahydrocoptisine ((RS)-Stylopine)
Cat. No.: GC33877

Chemical Properties

Cas. No.	4312-32-7		
SMILES	C1(C(CCN2CC3=C4OCOC4=CC=C3CC21)=C5)=CC6=C5OCO6		
Formula	$C_{19}H_{17}NO_4$	M.Wt	323.34
Solubility	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)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Tetrahydrocoptisine is an alkaloid that has been found in *C. impatiens* and has anti-inflammatory and antioxidant activities.[1,2] It inhibits LPS-induced NF-κB activation and production of nitric oxide (NO), TNF-α, and IL-6 in isolated mouse peritoneal macrophages when used at concentrations ranging from 0.001 to 1 ?g/ml.[1] Tetrahydrocoptisine (10 and 30 mg/kg) inhibits xylene-induced ear edema in mice, and it decreases serum levels of TNF-α in a mouse model of LPS-induced septic shock. It reduces the severity of ethanol-induced gastric ulcers in mice when administered at doses of 10 or 20 mg/kg.[2]

1.Li, W., Huang, H., Zhang, Y., 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 pathwayEur. J. Pharmacol.715(1-3)62-71(2013) 2.Li, W., Huang, H.,

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Niu, X., et al.Protective effect of tetrahydrocoptisine against ethanol-induced gastric ulcer in miceToxicol. Appl. Pharmacol.272(1)21-29(2013)

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