Roemerine

Cat. No.: HY-121793

CAS No.: 548-08-3

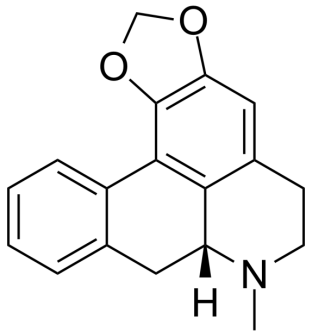
Molecular Formula: $C_{18}H_{17}NO_2$

Molecular Weight: 279.33

Target: P-glycoprotein; Endogenous Metabolite

Pathway: Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease

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

DMSO : 100 mg/mL (358.00 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	3.5800 mL	17.9000 mL	35.8000 mL
	5 mM	0.7160 mL	3.5800 mL	7.1600 mL
	10 mM	0.3580 mL	1.7900 mL	3.5800 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (8.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.95 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Roemerine, an aporphine alkaloid, isolated from the leaves of Fibraurea recisa Pierre, functions by interacting with P-glycoprotein. Roemerine reverses the multidrug-resistance phenotype with cultured cells[1].

REFERENCES

[1]. M You, et al. (-)-Roemerine, an Aporphine Alkaloid From Annona Senegalensis That Reverses the Multidrug-Resistance Phenotype With Cultured Cells. J Nat Prod. 1995

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