

(S)-(-)-Canadine

Chemical Properties

CAS No. : 5096-57-1

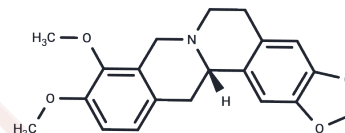
Formula: C₂₀H₂₁NO₄

Molecular Weight: 339.39

Keep away from direct sunlight

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	(S)-(-)-Canadine (tetrahydroberberine) is a naturally occurring isoquinoline alkaloid, acting as a D2 receptor antagonist and 5-HT1A receptor agonist, capable of blocking dopamine-stimulated adenylate cyclase activity. (S)-(-)-Canadine also enhances gastrointestinal motility, blocks K(ATP) channels in substantia nigra pars compacta (SNc) dopaminergic neurons, and exerts neuroprotective effects.
Targets(IC50)	ATPase,5-HT Receptor,Dopamine Receptor

Solubility Information

Solubility	Acetone: ≥ 10 mg/mL,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	2.9465 mL	14.7323 mL	29.4646 mL
5 mM	0.5893 mL	2.9465 mL	5.8929 mL
10 mM	0.2946 mL	1.4732 mL	2.9465 mL
50 mM	0.0589 mL	0.2946 mL	0.5893 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

Galanie S, Smolke CD. Optimization of yeast-based production of medicinal protoberberine alkaloids. Microb Cell Fact. 2015 Sep 16;14:144.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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