

Dicentrine

Chemical Properties

CAS No. : 517-66-8

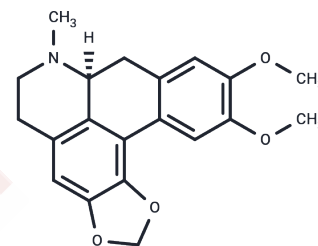
Formula: C₂₀H₂₁NO₄

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	Dicentrine is an alkaloid-enriched fraction and the primary alkaloid of the leaves of <i>Ocotea puberula</i> (Lauraceae), a native Brazilian plant traditionally used by Indigenous populations for skin affections, and dicentrine further demonstrates pharmacological activity as an α 1-adrenoceptor antagonist in human hyperplastic prostate tissue. Dicentrine has been evaluated using radioligand binding assays with [³ H]prazosin and in vitro isometric tension experiments, confirming functional α 1-adrenoceptor involvement and supporting therapeutic relevance in disorders associated with prostate hyperplasia.
Targets(IC50)	Adrenergic Receptor
In vitro	Dicentrine combined with TNF- α treatment at concentrations of 25, 30, and 40 μ M significantly reduced the survival rate of A549 cells (54.85%, 54.35%, and 45.15%, respectively), demonstrating a more pronounced effect compared to Dicentrine alone [1].

Solubility Information

Solubility	DMSO: 8 mg/mL (23.57 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

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

Ooppachai C, et al. Dicentrine Potentiates TNF- α -Induced Apoptosis and Suppresses Invasion of A549 Lung Adenocarcinoma Cells via Modulation of NF- κ B and AP-1 Activation. *Molecules*. 2019 Nov 13;24(22):4100.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481