

Corynoline

Chemical Properties

CAS No. : 18797-79-0

Formula: C₂₁H₂₁N₅O₅

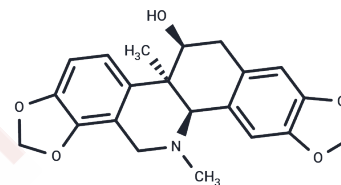
Molecular Weight: 367.40

Storage:

Store at low temperature, Keep away from direct sunlight

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. Corynoline ((+)-Corynoline) is an acetylcholinesterase inhibitor.
Targets(IC50)	Nrf2, Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 42 mg/mL (114.32 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 4.2 mg/mL (11.43 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.2 mg/mL (11.43 mM), Solution. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.72 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7218 mL	13.6091 mL	27.2183 mL
5 mM	0.5444 mL	2.7218 mL	5.4437 mL
10 mM	0.2722 mL	1.3609 mL	2.7218 mL
50 mM	0.0544 mL	0.2722 mL	0.5444 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

Cell adhesion inhibitory activity of (d)-corynoline, a hexahydrobenzo[c]phenanthridine-type alkaloid, and its structure-activity relationship, studied by X-ray crystal structure analysis and molecular docking study.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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