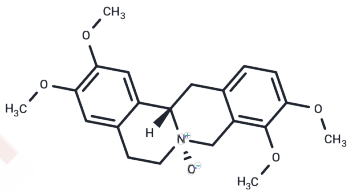
Data Sheet (Cat.No.TN1527)

TargetMol

(-)-Corynoxidine

Chemical Properties



CAS No. : 57906-85-1

Formula: C21H25NO5

Molecular Weight: 371.43

Storage: Store at low temperature
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	(-)-Corynoxidine is an AChE inhibitor derived from tubers of Stephania succifera. Corynoxidine exhibits antibacterial activities against Staphylococcus aureus and methicillin-resistant Staphylococcus aureus strains in different degrees.
Targets(IC50)	Antibacterial,Antifection,Cholinesterase (ChE)
In vitro	(-)-Corynoxidine inhibits AChE activity in a dose-dependent manner with an IC50 value of 89.0 μM[2].

Solubility Information

Solubility	DMSO: 20 mg/mL (53.85 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.69 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6923 mL	13.4615 mL	26.923 mL
5 mM	0.5385 mL	2.6923 mL	5.3846 mL
10 mM	0.2692 mL	1.3461 mL	2.6923 mL
50 mM	0.0538 mL	0.2692 mL	0.5385 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

Yang DL, et al. A new antibacterial denitroaristolochic acid from the tubers of Stephania succifera. J Asian Nat Prod Res. 2013;15(3):315-8.

Kim DK, et al. Acetylcholinesterase inhibitors from the aerial parts of Corydalis speciosa. Arch Pharm Res. 2004 Nov;27(11):1127-31.