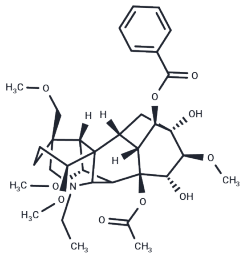
Data Sheet (Cat.No.T4S1876)

TargetMol

3-Deoxyaconitine

Chemical Properties



CAS No. : 3175-95-9

Formula: C34H47NO10

Molecular Weight: 629.74

Storage: Store at low temperature,Keep away from moisture,
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	3- Deoxyaconitine is a derivative of Aconitine (A189875), which activates tetrodotoxin-sensitive Na+ channels, inducing presynaptic depolarization, thus blocking the nerve action potential which, in turn, blocks the release of neurotransmitters and decreases the end plate potential at the neuromuscular junction.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 50 mg/mL (79.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.18 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	1.588 mL	7.9398 mL	15.8796 mL
5 mM	0.3176 mL	1.588 mL	3.1759 mL
10 mM	0.1588 mL	0.794 mL	1.588 mL
50 mM	0.0318 mL	0.1588 mL	0.3176 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

Derbre, S., et al.: Anal. Bioanal. Chem., 398, 1747 (2010),
Li, M., et al.: J. Pharm. Biomed. Anal., 53, 1063 (2010)