Data Sheet (Cat.No.T6560)

TargetMol

Lappaconitine hydrobromide

Chemical Properties

CAS No. : 97792-45-5

Formula: C32H44N2O8·HBr

Molecular Weight: 665.61

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	Lappaconitine hydrobromide (Allapinine) is a kind of alkaloid extracted from Aconitum sinomontanum Nakai. It has anti-inflammatory effects.
Targets(IC50)	Others
In vitro	Lappaconite Hydrobromide is a kind of alkaloid extracted from Aconitum sinomontanum Nakai and has anti-inflammatory effects. Its absorption percentage in rat stomachs after administration was 9.67%.The absorption percentages at duodenum, jejunum,ileum and colon were 19.61%,11.83%,12.95% and 9.51%, respectively.When the concentration was raised from 10 mg/L to 40 mg/L, the uptake of lappaconite hydrobromide was linearly increased,whereas the absorption rate constant kept at the
In vivo	LD50: Mice 10.5 mg/kg (i.p.); Rats 9.9 mg/kg (i.p.) [2]

Solubility Information

Solubility	DMSO: 28 mg/mL (42.07 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5024 mL	7.5119 mL	15.0238 mL
5 mM	0.3005 mL	1.5024 mL	3.0048 mL
10 mM	0.1502 mL	0.7512 mL	1.5024 mL
50 mM	0.030 mL	0.1502 mL	0.3005 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

Vakhitova IuV, et al. To the mechanisms of antiarrhythmic action of Allapinine. Bioorg Khim, 2013, 39 (1):105-16
Abdalla A., et al. Allapinine pharmacodynamics and potential adverse effects. Kardiologiya. 29(7): 29-32