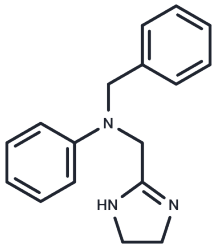
Data Sheet (Cat.No.T0092)

TargetMol

Antazoline hydrochloride

Chemical Properties



CAS No. : 2508-72-7

Formula: C17H19N3·HCl

Molecular Weight: 301.82

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	Antazoline hydrochloride (Phenazoline hydrochloride), a first-generation antihistamine, can bind to the histamine H1 receptor and block the action of endogenous histamine.
Targets(IC50)	Histamine Receptor,HBV
In vitro	In the model of sustained epileptic state induced by picrotoxin, Antazoline can be utilized to protect the intrinsic neural circuitry.
In vivo	At a concentration of 30 μM, Antazoline effectively reduces neurotoxicity mediated by NMDA and also blocks NMDA-induced currents via a voltage-dependent and rapidly reversible action, with an inhibition rate of 85±3% at a voltage of -60 mV.

Solubility Information

Solubility	DMSO: 45 mg/mL (149.1 mM),Sonication is recommended. H2O: 14 mg/mL (46.39 mM),Sonication is recommended. Ethanol: 4 mg/mL (13.25 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 (6.63 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	3.3132 mL	16.5662 mL	33.1323 mL
5 mM	0.6626 mL	3.3132 mL	6.6265 mL
10 mM	0.3313 mL	1.6566 mL	3.3132 mL
50 mM	0.0663 mL	0.3313 mL	0.6626 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

Milhaud D, et al. Neuroscience, 2003, 120(2), 475-484.
Li J, Hu Y, Yuan Y, et al Repurposing of Antazoline Hydrochloride as an Inhibitor of Hepatitis B Virus DNA Secretion. Virologica Sinica. 2020: 1-9
Li J, Hu Y, Yuan Y, et al. Repurposing of Antazoline Hydrochloride as an Inhibitor of Hepatitis B Virus DNA Secretion [J]. Virologica Sinica. 2020: 1-9.