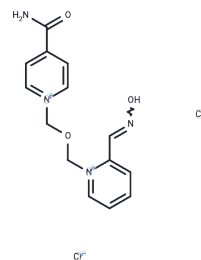


Asoxime dichloride

Chemical Properties

CAS No. :	34433-31-3
Formula:	C14H16Cl2N4O3
Molecular Weight:	359.21
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	Asoxime dichloride (Tert-Butyl2-(2-hydroxyethyl)-1-pyrrolidinecarboxylate) is an antagonist to acetylcholine receptors (AChRs) including the nicotinic receptor, $\alpha 7$ nAChR. Asoxime dichloride (HI-6) can be used as an antigen and improves vaccination efficacy in the nervous system. Asoxime dichloride involves in modulating immunity response.
Targets(IC50)	AChR
In vivo	A combination of HI-6 and keyhole limpet hemocyanin (KLH) produces a vaccination of almost the same efficacy as that for Freund's complete adjuvant[1]. Asoxime dichloride (intramuscular injection into the rear limb; 2% and 0.2% of median lethal dose 15.6 and 1.56 mg/kg; 21 or 65 days) significantly improved vaccination efficacy as a dose-dependent manner when KLH is 1 mg/kg[1].

Solubility Information

Solubility	H2O: 10 mg/mL (27.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7839 mL	13.9194 mL	27.8389 mL
5 mM	0.5568 mL	2.7839 mL	5.5678 mL
10 mM	0.2784 mL	1.3919 mL	2.7839 mL
50 mM	0.0557 mL	0.2784 mL	0.5568 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

Pohanka M, et al. HI-6 modulates immunization efficacy in a BALB/c mouse model. Environ Toxicol Pharmacol. 2013 Nov;36(3):801-6.

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