Data Sheet (Cat.No.T16372)

TargetMol®
YOUR TARGET MOLECULES

Obidoxime dichloride

Chemical Properties

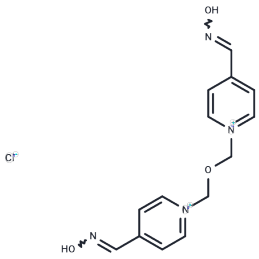
CAS No. : 114-90-9

Formula: C14H16ClN4O3

Molecular Weight: 323.76

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Obidoxime dichloride, a selective oxime agent, effectively reactivates sarin-inhibited acetylcholinesterase (AChE) and mitigates the acute toxicity associated with sarin exposure. It is also utilized as an antidote for organophosphate nerve agent poisoning.
Targets(IC50)	Others
In vivo	After administration of sarin, Obidoxime dichloride (intramuscular injection; 10 mg/kg; after 60 mins) shows a LD50 of 57.7 mg/kg. It decreases acute toxicity of sarin was evaluated.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0887 mL	15.4435 mL	30.8871 mL
5 mM	0.6177 mL	3.0887 mL	6.1774 mL
10 mM	0.3089 mL	1.5444 mL	3.0887 mL
50 mM	0.0618 mL	0.3089 mL	0.6177 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.

Reference

Kassa J,et al. A comparison of the reactivating and therapeutic efficacy of two novel bispyridinium oximes (K727, K733) with the oxime HI-6 and obidoxime in sarin-poisoned rats and mice.Toxicol Mech Methods. 2015 Mar;25(3):

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481