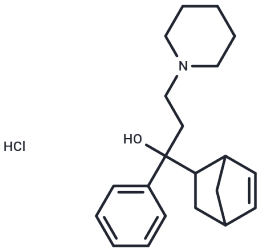
Data Sheet (Cat.No.T14614)

TargetMol

Biperiden Hydrochloride

Chemical Properties



CAS No. : 1235-82-1

Formula: C21H30ClNO

Molecular Weight: 347.92

Appearance: no data available

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

Biological Description

Description	Biperiden Hydrochloride (KL 373 Hydrochloride) is an antiparkinsonian agent, which is the selective central M1 cholinoreceptors blocker and it is used for the adjunctive treatment of all forms of Parkinson's disease (postencephalitic, idiopathic, and arteriosclerotic)[1]. Target: M1 receptors Biperiden is an antiparkinsonian agent of the anticholinergic type. Biperiden has an atropine-like blocking effect on all peripheral structures which are parasympathetic-innervate and it also has a prominent central blocking effect on M1 receptors[2]. Biperiden (0.11 mg/kg), benactyzine (0.3 mg/kg), caramiphen (10 mg/kg), procyclidine (3 mg/kg), and trihexyphenidyl (0.12 mg/kg) separately and each in combination with physostigmine (0.1 mg/kg) is to make a comparative assessment of potential cognitive effects. The results showed that benactyzine, caramiphen, and trihexyphenidyl reduced rats' innate preference for novelty. Whereas biperiden and procyclidine did not [3]. Clinical indications: parkinsonism FDA Approved Date: Toxicity: Drowsiness; vertigo; headache; dizziness
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 5 mg/mL (14.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8742 mL	14.3711 mL	28.7422 mL
5 mM	0.5748 mL	2.8742 mL	5.7484 mL
10 mM	0.2874 mL	1.4371 mL	2.8742 mL
50 mM	0.0575 mL	0.2874 mL	0.5748 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

Pehl C, et al. Effects of two anticholinergic drugs, trospium chloride and biperiden, on motility and evoked potentials of the oesophagus. Aliment Pharmacol Ther. 1998 Oct;12(10)
Kornhuber J, et al. Identification of novel functional inhibitors of acid sphingomyelinase. PLoS One. 2011;6(8)
Myhrer T, et al. Antiparkinson drugs used as prophylactics for nerve agents: studies of cognitive side effects in rats. Pharmacol Biochem Behav. 2008 Jun;89(4):633-8.

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