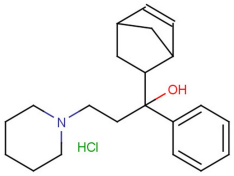
Data Sheet (Cat.No.T14614)

TargetMol
A DRUG SCREENING EXPERT

Biperiden Hydrochloride

Chemical Properties



CAS No.:	1235-82-1
Formula:	C21H30ClNO
Molecular Weight:	347.92
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	Others: None

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.874 mL	14.371 mL	28.742 mL
5 mM	0.575 mL	2.874 mL	5.748 mL
10 mM	0.287 mL	1.437 mL	2.874 mL
50 mM	0.057 mL	0.287 mL	0.575 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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)
2. Kornhuber J, et al. Identification of novel functional inhibitors of acid sphingomyelinase. PLoS One. 2011;6(8)
3. 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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