Product Data Sheet

Product Name: Biperiden
Cat. No.: GC35524

Chemical Properties

Cas. No.	514-65-8		
SMILES	OC([C@H]1C[C@@H]2C=C[C@H]1C2)(CCN3CCCCC3)C4=CC=CC=C4		
Formula	$C_{21}H_{29}NO$	M.Wt	311.46
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Biperiden		

Background

Biperiden(KL 373) is an antiparkinsonian agent, which is the selective central M1 cholinoreceptors blocker.Target: M1 receptorsBiperiden is an antiparkinsonian agent of the anticholinergic type. It is used for the adjunctive treatment of all forms of Parkinson's disease (postencephalitic, idiopathic, and arteriosclerotic)[1]. Biperiden has an atropine-like blocking effect on all peripheral structures which are parasympathetic-innervate. 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: parkinsonismFDA Approved Date: Toxicity: Drowsiness; vertigo; headache; dizziness

[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

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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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