

Certificate of Analysis

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Product Name: Biperiden hydrochloride

Catalog No.: 2853

Batch No.: 1

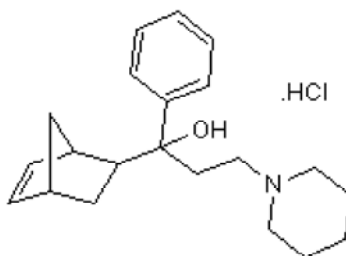
CAS Number: 1235-82-1

EC Number: 214-976-2

IUPAC Name: α -Bicyclo[2.2.1]hept-5-en-2-yl- α -phenyl-1-piperidinepropanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₉NO.HCl
Batch Molecular Weight: 347.92
Physical Appearance: White solid
Solubility: water to 5 mM
DMSO to 10 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.5	8.7	4.03
Found	72.61	8.65	3.96

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Muscarinic receptor antagonist that displays some selectivity for the M₁ subtype (K_i values are 0.48, 2.4, 3.9, 6.3 and 6.3 nM for M₁, M₄, M₃, M₂ and M₅ receptors respectively). Alleviates extrapyramidal symptoms associated with antipsychotic drugs. Displays antiparkinsonian activity.

Physical and Chemical Properties:

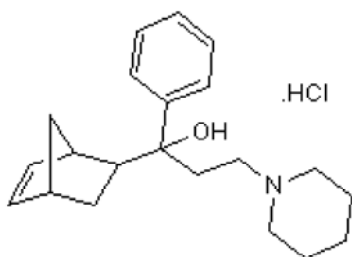
Batch Molecular Formula: C₂₁H₂₉NO.HCl

Batch Molecular Weight: 347.92

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 5 mM

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Brocks (1999) Anticholinergic drugs used in Parkinson's disease: an overlooked class of drugs from a pharmacokinetic perspective. *J.Pharm.Pharmaceut.Sci.* **2** 39.

Sudo et al (1999) Muscarinic receptor occupancy by bipe. in living human brain. *Life Sci.* **64** PL99. PMID: 10069534.

Bolden et al (1992) Antagonism by antimuscarinic and neuroleptic compounds at the five cloned human muscarinic cholinergic receptors expressed in chinese hamster ovary cells. *J.Pharmacol.Exp.Ther.* **260** 576. PMID: 1346637.

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