

Product Name: Haloperidol hydrochloride

Catalog No.: 0931

Batch No.: 3

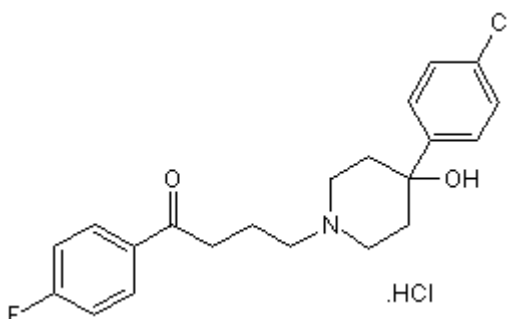
CAS Number: 1511-16-6

EC Number: 200-155-6

IUPAC Name: 4-[4-(4-Chlorophenyl)-4-hydroxy-1-piperidinyl]-1-(4-fluorophenyl)-1-butanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₃ClFNO₂·HCl
Batch Molecular Weight: 412.33
Physical Appearance: White solid
Solubility: ethanol to 10 mM with gentle warming
DMSO to 25 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.17	5.87	3.4
Found	60.92	5.84	3.53

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

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IUPAC Name: 4-[4-(4-Chlorophenyl)-4-hydroxy-1-piperidinyl]-1-(4-fluorophenyl)-1-butanone hydrochloride

Description:

Dopamine antagonist with selectivity for D₂-like receptors (K_i values are 1.2, ~ 7, 2.3, ~ 80 and ~ 100 nM for D₂, D₃, D₄, D₁ and D₅ receptors respectively). Subtype-selective NMDA antagonist.

Physical and Chemical Properties:

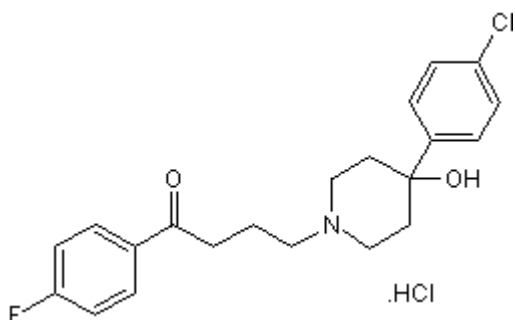
Batch Molecular Formula: C₂₁H₂₃ClFNO₂.HCl

Batch Molecular Weight: 412.33

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Merck Index **12** 4629.

Beresford and Ward (1987) Haloperidol decanoate. A preliminary review of its pharmacodynamic and pharmacokinetic properties and therapeutic use in psychosis. *Drugs* **33** 31. PMID: 3545764.

Seeman and Van Tol (1994) Dopamine receptor pharmacology. *TiPS* **15** 264. PMID: 7940991.

Ilyin et al (1996) Subtype-selective inhibition of N-methyl-D-aspartate receptors by haloperidol. *Mol.Pharmacol.* **50** 1541. PMID: 8967976.

Lynch and Gallagher (1996) Inhibition of N-methyl-D-aspartate receptors by haloperidol: development and pharmacological characterization in native and recombinant receptors. *J.Pharmacol.Exp.Ther.* **279** 154. PMID: 8858988.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM with gentle warming

DMSO to 25 mM with gentle warming

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.

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