

**Product Name:** Haloperidol hydrochloride

**Catalog No.:** 0931

**Batch No.:** 4

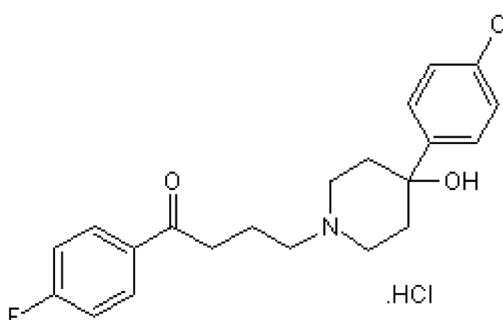
CAS Number: 1511-16-6

EC Number: 200-155-6

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>23</sub>ClFNO<sub>2</sub>.HCl  
**Batch Molecular Weight:** 412.33  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 25 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	61.17	5.87	3.4
Found	61.18	5.81	3.3

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

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**Description:**

Haloperidol hydrochloride is a dopamine antagonist with selectivity for D<sub>2</sub>-like receptors (K<sub>i</sub> values are 1.2, ~ 7, 2.3, ~ 80 and ~ 100 nM for D<sub>2</sub>, D<sub>3</sub>, D<sub>4</sub>, D<sub>1</sub> and D<sub>5</sub> receptors respectively). Subtype-selective NMDA antagonist. Identified as targeting human host proteins that interact with SARS-CoV-2.

**Physical and Chemical Properties:**

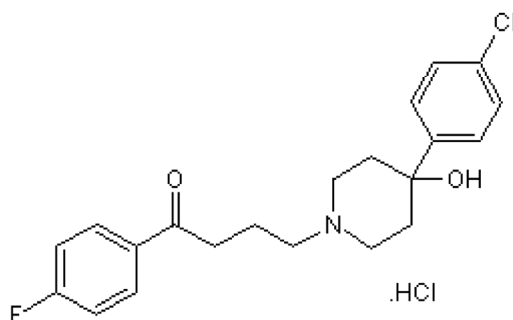
Batch Molecular Formula: C<sub>21</sub>H<sub>23</sub>ClFNO<sub>2</sub>.HCl

Batch Molecular Weight: 412.33

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Gordon et al** (2020) A SARS-CoV-2 protein-protein interaction map reveals drug targets and drug repurposing. *Nature* **583** 459. PMID: 32353859.

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

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

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