bio-techne
TOCRIS

Print Date: Nov 21st 2023

Certificate of Analysis

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Product Name: **Haloperidol hydrochloride** **Catalog No.: 0931** **Batch No.: 1**

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: $C_{21}H_{23}ClFNO_2.HCl$

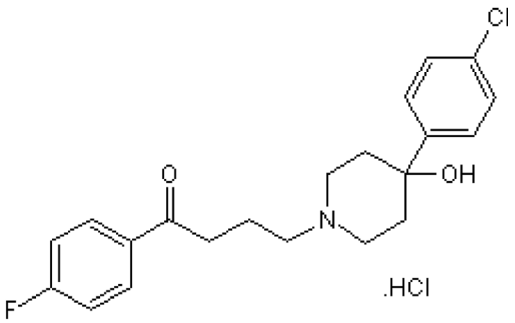
Batch Molecular Weight: 412.33

Physical Appearance: White crystalline solid

Solubility: DMSO to 25 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol [10:1])

Melting Point: Between 223 - 226°C

HPLC: Shows >99.5% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.17	5.87	3.4
Found	61.29	5.85	3.32

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

Description:

Haloperidol hydrochloride is a dopamine antagonist with selectivity for D_2-like receptors (K_i values are 1.2, ~ 7, 2.3, ~ 80 and ~ 100 nM for D_2, D_3, D_4, D_1 and D_5 receptors respectively). Subtype-selective NMDA antagonist. Identified as targeting human host proteins that interact with SARS-CoV-2.

Physical and Chemical Properties:

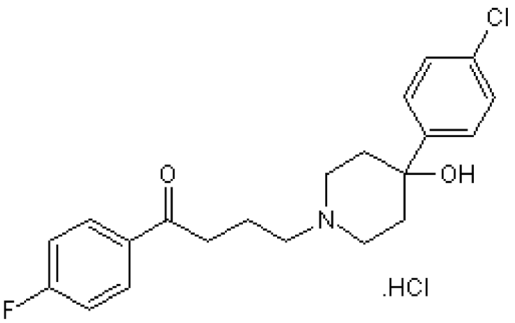
Batch Molecular Formula: $C_{21}H_{23}ClFNO_2.HCl$

Batch Molecular Weight: 412.33

Physical Appearance: White crystalline 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.