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DATASHEET

Haloperidol hydrochloride

Product overview

Name	Haloperidol hydrochloride
Cat No	HB1842
Alternative names	Haloperidol hydrochloride
Biological action	Antagonist
Purity	>99%
Description	Dopamine receptor antagonist with partial D_2-like selectivity

Biological Data

Biological description

Dopamine receptor antagonist with partial D_2-like receptor selectivity (K_i values are 0.53, 2.7, 2.3, 27 and 48 nM at D_2, D_3, D_4, D_1 and D_5 receptors respectively).

Shows variety of biological actions. Active *in vivo*.

Recently investigated as part of COVID-19 compound repurposing.

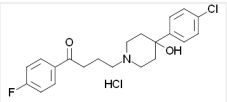
Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (20 mM with warming), and in ethanol (10 mM with warming)

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-[4-(4-Chlorophenyl)-4-hydroxy-1-piperidinyl]-1-(4-fluorophenyl)-1-butanone hydrochloride
Molecular Weight	412.33
Chemical structure	
Molecular Formula	$C_{21}H_{23}ClFNO_2.HCl$
CAS Number	1511-16-6
PubChem identifier	11495267
SMILES	Cl.OC1(CCN(CCCC(=O)C2=CC=C(F)C=C2)CC1)C1=CC=C(Cl)C=C1
InChiKey	JMRYYMBDXNZQMH-UHFFFAOYSA-N

References

Inhibition of N-methyl-D-aspartate receptors by haloperidol: developmental and pharmacological characterization in native

and recombinant receptors.

Lynch DR *et al* (1996) J Pharmacol Exp Ther 279(1)
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Antipsychotic drugs: importance of dopamine receptors for mechanisms of therapeutic actions and side effects.

Strange PG (2001) Pharmacol Rev 53(1)
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Cloning of the gene for a human dopamine D5 receptor with higher affinity for dopamine than D1.

Sunahara RK *et al* (1991) Nature 350(6319)
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A SARS-CoV-2 protein interaction map reveals targets for drug repurposing

Krogan et al (2020) Nature 7816
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