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DATASHEET

Spiperone hydrochloride

Product overview

Name	Spiperone hydrochloride
Cat No	HB1656
Biological action	Antagonist
Purity	>98%
Description	Selective D ₂ -like receptor antagonist. 5-HT _{2A} antagonist.

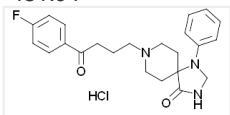
Biological Data

Biological description	Selective D ₂ -like receptor antagonist and 5-HT _{2A} antagonist (K _i values are 0.06, 0.6, 0.08, 350 and 35000 at D ₂ , D ₃ , D ₄ , D ₁ and D ₅ and 1.27 and >1000 nM at r5-HT _{2A} and r5-HT _{2C} receptors respectively). Also shows activity at 5-HT _{1A} and 5-HT ₇ receptors. Shows antipsychotic effects. Active <i>in vivo</i> .
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Solubility & Handling

Storage instructions	Room temperature
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	8-[4-(4-Fluorophenyl)-4-oxobutyl]-1-phenyl-1,3,8-triazaspiro[4,5]decan-4-one hydrochloride
Molecular Weight	431.94
Chemical structure	
Molecular Formula	C ₂₃ H ₂₆ FN ₃ O ₂ .HCl
CAS Number	2022-29-9
PubChem identifier	11957687
SMILES	Cl.FC1=CC=C(C=C1)C(=O)CCCN1CCC2(CC1)N(CNC2=O)C1=CC=CC=C1
InChiKey	QUIKMLGZZMOBLH-UHFFFAOYSA-N

References

The D3 dopamine receptor: neurobiology and potential clinical relevance.

Levant B (1997) Pharmacol Rev 49(3)

PubMedID [9311022](#)

Neurotransmitters, Drugs and Brain Function

Webster R (2001) Wiley

Antagonist binding at 5-HT(2A) and 5-HT(2C) receptors in the rabbit: high correlation with the profile for the human receptors.

Aloyo VJ *et al* (2000) Eur J Pharmacol 406(2)

PubMedID [11020478](#)
