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DATASHEET

Paroxetine hydrochloride

Product overview

Name	Paroxetine hydrochloride
Cat No	HB0478
Alternative names	Paxil
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective serotonin reuptake inhibitor. Selective GRK2 inhibitor.

Images



Biological Data

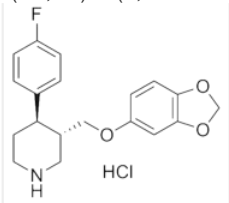
Biological description	Potent and selective serotonin (5-HT) reuptake inhibitor ($K_i = 0.05$ nM). Binds to the serotonin transporter (SERT). Also inhibits Norepinephrine transporter (NET) and increases NET and SERT expression. Additionally acts as a selective G-protein-receptor-kinase2 (GRK2) inhibitor, showing >50-fold selectivity over other GRKs. Shows antidepressant and anxiolytic actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
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	(3S,4R)-3-(1,3-benzodioxol-5-yloxymethyl)-4-(4-fluorophenyl)piperidine;hydrochloride
Molecular Weight	365.82
Chemical structure	

Chemical name	(3S,4R)-3-(1,3-benzodioxol-5-yloxymethyl)-4-(4-fluorophenyl)piperidine;hydrochloride
	
Molecular Formula	C ₁₉ H ₂₁ ClFNO ₃
CAS Number	78246-49-8
PubChem identifier	62878
SMILES	C1CNC[C@H]([C@@H]1C2=CC=C(C=C2)F)COC3=CC4=C(C=C3)OCO4.Cl
InChi	InChI=1S/C19H20FNO3.ClH/c20-15-3-1-13(2-4-15)17-7-8-21-10-14(17)11-22-16-5-6-18-19(9-16)24-12-23-18;/h1-6,9,14,17,21H,7-8,10-12H2;1H/t14-,17-;/m0./s1
InChiKey	GELRVIPPMNMYGS-RVXRQPKJSA-N
MDL number	MFCD03658863

References

Neurotransmitter receptor and transporter binding profile of antidepressants and their metabolites.

Owens MJ *et al* (1997) J Pharmacol Exp Ther 283(3)

PubMedID [9400006](#)

Antidepressive effect of paroxetine in a rat model: upregulating expression of serotonin and norepinephrine transporter.

Qiu HM *et al* (2013) Neuroreport 24(10)

PubMedID [23636256](#)

Neuropharmacology of paroxetine.

Nemeroff CB *et al* (2003) Psychopharmacol Bull 37 Suppl 1

PubMedID [14566196](#)