

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellowbio.com



## DATASHEET

Paroxetine hydrochloride

### Product overview

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

### Images



### Biological Data

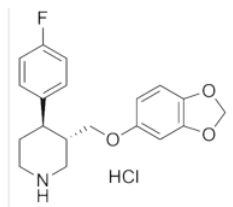
<b>Biological description</b>	Potent and selective serotonin (5-HT) reuptake inhibitor ( $K_i = 0.05$ nM). Binds to the serotonin transporter (SERT). Also inhibits Norepinephrine transporter (NET) and increases NET and SERT expression. Additionally acts as a selective G-protein-receptor-kinase2 (GRK2)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

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(3S,4R)-3-(1,3-benzodioxol-5-yloxymethyl)-4-(4-fluorophenyl)piperidine;hydrochloride
<b>Molecular Weight</b>	365.82
<b>Chemical structure</b>	



<b>Molecular Formula</b>	C <sub>19</sub> H <sub>21</sub> ClFNO <sub>3</sub>
<b>CAS Number</b>	78246-49-8
<b>PubChem identifier</b>	62878
<b>SMILES</b>	C1CNC[C@H]([C@@H]1C2=CC=C(C=C2)F)COC3=CC4=C(C=C3)OCO4.Cl
<b>InChi</b>	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
<b>InChiKey</b>	GELRVIPPMNMYGS-RVXRQPKJSA-N
<b>MDL number</b>	MFCD03658863

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## 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](#)

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