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## DATASHEET

Fluoxetine hydrochloride

### Product overview

<b>Name</b>	Fluoxetine hydrochloride
<b>Cat No</b>	HB1600
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Selective 5-HT uptake inhibitor. Affects differentiation of NSCs.

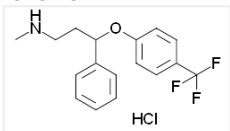
### Biological Data

<b>Biological description</b>	Potent, selective 5-HT reuptake inhibitor ( $K_i = 2$ nM at rSERT). Also acts at other receptors and channels. Shows ~150-900 fold selectivity over 5-HT <sub>1A</sub> , <sup>-2A</sup> , muscarinic, $\alpha_1$ , $\alpha_2$ -adrenoceptors and H <sub>1</sub> receptors. Also affects differentiation of neural stem cells (NSCs). Shows antidepressant effects. Active <i>in vivo</i> .
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in water (10mM) and in DMSO (100mM)
<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>	N-Methyl-3-[(4-trifluoromethyl)phenoxy]-3-phenylpropylamine hydrochloride
<b>Molecular Weight</b>	345.78
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>18</sub> F <sub>3</sub> NO.HCl
<b>CAS Number</b>	56296-78-7
<b>PubChem identifier</b>	62857
<b>SMILES</b>	CNCCC(C1=CC=CC=C1)OC2=CC=C(C=C2)C(F)(F)F.Cl
<b>InChi</b>	InChI=1S/C17H18F3NO.ClH/c1-21-12-11-16(13-5-3-2-4-6-13)22-15-9-7-14(8-10-15)17(18,19)20;/h2-10,16,21H,11-12H2,1H3;1H
<b>InChiKey</b>	GIYXAJPCNFJEHY-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00214288

### References

#### Fluoxetine, a selective inhibitor of serotonin uptake.

Fuller RW *et al* (1991) Med Res Rev 11(1)

PubMedID [1994152](#)

**Fluoxetine and its two enantiomers as selective serotonin uptake inhibitors.**

Wong DT *et al* (1990) *Acta Pharm Nord* 2(3)

**PubMedID** [2200429](#)

**Fluoxetine. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in depressive illness.**

Benfield P *et al* (1986) *Drugs* 32(6)

**PubMedID** [2878798](#)

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