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## DATASHEET

Fluvoxamine maleate

### Product overview

<b>Name</b>	Fluvoxamine maleate
<b>Cat No</b>	HB2138
<b>Alternative names</b>	NSC 309469
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Selective serotonin reuptake inhibitor and $\sigma$ 1 receptor agonist

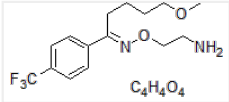
### Biological Data

<b>Biological description</b>	Selective serotonin reuptake inhibitor and $\sigma$ 1 receptor agonist ( $K_i = 36$ nM at $\sigma$ 1). Shows antidepressant and anxiolytic activity. Active <i>in vivo</i> .
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C (desiccate)
<b>Solubility overview</b>	Soluble in water (10mM)
<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>	(E)-5-Methoxy-1-[4-(trifluoromethyl)phenyl]-1-pentanone-O-(2-aminoethyl)oxime maleate
<b>Molecular Weight</b>	434.41
<b>Chemical structure</b>	 The image shows the chemical structure of Fluvoxamine maleate. It consists of a maleate moiety (a five-membered ring with two double bonds and two oxygen atoms) attached to a pentanone chain. The pentanone chain is further substituted with a trifluoromethyl group (F <sub>3</sub> C) and a 2-aminoethyl group (NH <sub>2</sub> ) via an oxime linkage. The maleate moiety is also substituted with a methoxy group (OCH <sub>3</sub> ). The overall structure is labeled with C <sub>15</sub> H <sub>21</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub> ·C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> .
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>21</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub> ·C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
<b>CAS Number</b>	61718-82-9
<b>PubChem identifier</b>	9560989
<b>SMILES</b>	COCCCC/C(=N\OCCN)/C1=CC=C(C=C1)C(F)(F)F.C(=C\C(=O)O)\C(=O)O
<b>InChi</b>	InChI=1S/C15H21F3N2O2.C4H4O4/c1-21-10-3-2-4-14(20-22-11-9-19)12-5-7-13(8-6-12)15(16,17)18;5-3(6)1-2-4(7)8/h5-8H,2-4,9-11,19H2,1H3;1-2H,(H,5,6)(H,7,8)/b20-14+;2-1-LFMYNZPAVPMEGP-PIDGMYBPSA-N
<b>InChiKey</b>	LFMYNZPAVPMEGP-PIDGMYBPSA-N
<b>MDL number</b>	MFCD00269809
<b>Appearance</b>	White solid

### References

#### Fluvoxamine, a specific 5-hydroxytryptamine uptake inhibitor.

Claassen et al (1977) Br J Pharmacol 60(4)

**PubMedID** [302726](#)

Interactions of selective serotonin reuptake inhibitors with subtypes of sigma receptors in rat brain.

Narita et al (1996) Eur J Pharmacol 307(1)

**PubMedID** [8831113](#)

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

Benfield (1986) Drugs 32(4)

**PubMedID** [3096686](#)

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