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DATASHEET

Fluvoxamine maleate

Product overview

Name	Fluvoxamine maleate
Cat No	HB2138
Alternative names	NSC 309469
Biological action	Inhibitor
Purity	>98%
Description	Selective serotonin reuptake inhibitor and σ_1 receptor agonist

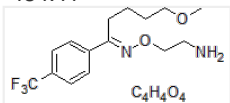
Biological Data

Biological description	Selective serotonin reuptake inhibitor and σ_1 receptor agonist ($K_i = 36$ nM at σ_1). Shows antidepressant and anxiolytic activity. Active <i>in vivo</i> .
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Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in water (10mM)
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	(E)-5-Methoxy-1-[4-(trifluoromethyl)phenyl]-1-pentanone-O-(2-aminoethyl)oxime maleate
Molecular Weight	434.41
Chemical structure	 The chemical structure shows a maleate moiety (C ₄ H ₄ O ₄) linked via an oxime group to a 1-pentanone chain. The 5-position of the pentanone is substituted with a 4-(trifluoromethyl)phenyl group (F ₃ C-C ₆ H ₄ -). The structure is labeled with C ₁₅ H ₂₁ F ₃ N ₂ O ₂ ·C ₄ H ₄ O ₄ .
Molecular Formula	C ₁₅ H ₂₁ F ₃ N ₂ O ₂ ·C ₄ H ₄ O ₄
CAS Number	61718-82-9
PubChem identifier	9560989
SMILES	COCCCC/C(=N\OCCN)/C1=CC=C(C=C1)C(F)(F)F.C(=C\C(=O)O)\C(=O)O
InChi	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
InChiKey	LFMYNZPAVPMEGP-PIDGMYBPSA-N
MDL number	MFCD00269809
Appearance	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)
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Fluvoxamine. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in depressive illness.

Benfield (1986) Drugs 32(4)
PubMedID 3096686
