

Certificate of Analysis

www.tocris.com

Product Name: Fluvoxamine maleate

Catalog No.: 1033

Batch No.: 6

CAS Number: 61718-82-9

IUPAC Name: (E)-5-Methoxy-1-[4-(trifluoromethyl)phenyl]-1-pentanone-O-(2-aminoethyl)oxime maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{21}F_3N_2O_2 \cdot C_4H_4O_4$

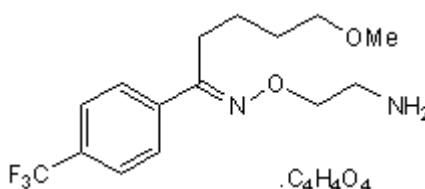
Batch Molecular Weight: 434.41

Physical Appearance: White solid

Solubility: water to 10 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.53	5.8	6.45
Found	52.64	5.75	6.43

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: Fluvoxamine maleate

Catalog No.: 1033

Batch No.: 6

CAS Number: 61718-82-9

IUPAC Name: (*E*)-5-Methoxy-1-[4-(trifluoromethyl)phenyl]-1-pentanone-*O*-(2-aminoethyl)oxime maleate

Description:

Selective serotonin reuptake inhibitor; antidepressant. Binds to the human 5-HT transporter with a K_i of 1.6 nmol/l.

Physical and Chemical Properties:

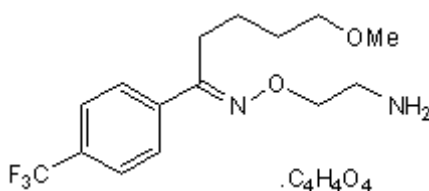
Batch Molecular Formula: $C_{15}H_{21}F_3N_2O_2 \cdot C_4H_4O_4$

Batch Molecular Weight: 434.41

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Owens et al (1997) Neurotransmitter receptor and transporter binding profile of antidepressants and their metabolites. *J.Pharmacol.Exp.Ther.* **283** 1305. PMID: 9400006.

Narita et al (1996) Interactions of selective serotonin reuptake inhibitors with subtypes of σ receptors in rat brain. *Eur.J.Pharmacol.* **307** 117. PMID: 8831113.

Benfield and Ward (1986) Fluvoxamine. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in depressive illness. *Drugs* **32** 313. PMID: 3096686.

Classen et al (1977) Fluvoxamine, a specific 5-hydroxytryptamine uptake inhibitor. *Br.J.Pharmacol.* **60** 505. PMID: 302726.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956