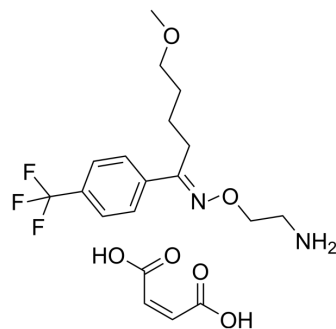


Fluvoxamine maleate

Cat. No.:	HY-B0103A
CAS No.:	61718-82-9
Molecular Formula:	C ₁₉ H ₂₅ F ₃ N ₂ O ₆
Molecular Weight:	434.41
Target:	Serotonin Transporter
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (230.20 mM)
 H₂O : 20 mg/mL (46.04 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.3020 mL	11.5099 mL	23.0197 mL
	5 mM		0.4604 mL	2.3020 mL	4.6039 mL
	10 mM		0.2302 mL	1.1510 mL	2.3020 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 20 mg/mL (46.04 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: phosphate buffer saline
Solubility: 20 mg/mL (46.04 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fluvoxamine maleate (DU-23000 maleate) is an antidepressant which functions pharmacologically as a selective serotonin reuptake inhibitor.

IC ₅₀ & Target	SSRIs ^[1] .
In Vivo	<p>Fluvoxamine maleate (DU-23000 maleate) is effective in inhibiting 5-HT uptake by blood platelets and brain synaptosomes. The antagonism by fluvoxamine of the reserpine-induced lowering of the pentamethylenetetrazole convulsive threshold can be regarded as due to an effect upon 5-HT uptake. In contrast to the effects of desmethylimipramine and imipramine, no stimulatory effects are found in rats when rapidly acting reserpine-like compounds are given following a dose of fluvoxamine^[1]. Fluvoxamine (DU-23000) appears to improve combat-related PTSD symptoms but not depressive symptoms. The high attrition rate and lack of a placebo group limits the conclusions of our study. Controlled studies of fluvoxamine in the treatment of PTSD are warranted^[2]. Fluvoxamine (DU-23000) was less potent at decreasing ethanol self-administration when food was available concurrently versus when ethanol was available in isolation [ED50: 4.0 (2.7-5.9) and 5.1 (4.3-6.0)]. Effects on food were similar under each condition in which food was available. The results demonstrate that the potency of fluvoxamine in reducing ethanol-maintained behavior depends on whether ethanol is available in isolation or in the context of concurrently scheduled food reinforcement^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Sci Transl Med. 2019 Feb 6;11(478). pii: eaau5266.
- EMBO Mol Med. 2022 May 25;e15373.
- Mol Med. 2022 Aug 3;28(1):87.
- Viruses. 2022, 14(7), 1369.
- PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.

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REFERENCES

- [1]. Ginsburg, B.C., J.W. Pinkston, and R.J. Lamb, The potency of fluvoxamine to reduce ethanol self-administration decreases with concurrent availability of food. *Behav Pharmacol*, 2012. 23(2): p. 134-42.
- [2]. Claassen, V., et al., Fluvoxamine, a specific 5-hydroxytryptamine uptake inhibitor. *Br J Pharmacol*, 1977. 60(4): p. 505-16.
- [3]. Escalona, R., et al., Fluvoxamine treatment in veterans with combat-related post-traumatic stress disorder. *Depress Anxiety*, 2002. 15(1): p. 29-33.

Caution: Product has not been fully validated for medical applications. For research use only.

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