

Product Data Sheet

Product Name: Fluvoxamine-d4 (maleate)

Cat. No.: GC49397

Chemical Properties

Cas. No. 1432075-74-5

SMILES COC(CCC/C(C1=CC=C(C(F)(F)F)C=C1)=N\OC([2H])([2H])C([2H])([2H])N.OC(/C=C\C(O)=O)=O

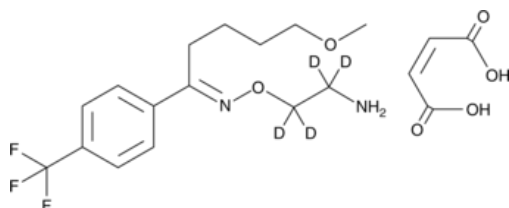
Formula $C_{15}H_{17}D_4F_3N_2O_2 \cdot C_4H_4O_4$ M.Wt 438.4

Solubility Water: soluble Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Fluvoxamine-d₄ is intended for use as an internal standard for the quantification of fluvoxamine by GC- or LC-MS. Fluvoxamine is a selective serotonin reuptake inhibitor (SSRI).¹ It selectively inhibits reuptake of serotonin over norepinephrine reuptake in rat hypothalamic synaptosomes (K_i s = 6.2 and 1,100 nM, respectively). Fluvoxamine (10 mg/kg) reduces immobility time in the forced swim test in mice, an effect that can be blocked by the sigma-1 (σ_1) receptor antagonist BD 1047.² It also reduces marble-burying behavior in the marble-burying test in mice when administered at a dose of 45 mg/kg, indicating anxiolytic- or reduced obsessive compulsive-like behaviors.³ Formulations containing fluvoxamine have been used in the treatment of obsessive compulsive disorder and social anxiety disorder.

1. Johnson, A.M. An overview of the animal pharmacology of paroxetine. *Acta Psychiatr.*

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Scand.80(Suppl. 350)14-20(1989) 2.Sugimoto, Y., Tagawa, N., Kobayashi, Y., et al.Involvement of the sigma1 receptor in the antidepressant-like effects of fluvoxamine in the forced swimming test in comparison with the effects elicited by paroxetineEur. J. Pharmacol.696(1-3)96-100(2012) 3.Hayashi, A., Yamashita, N., Baba, J., et al.Effects of co-administered fluvoxamine and diazepam, ethyl loflazepate or imipramine on marble-burying behavior in miceOyo Yakuri57(5-6)103-108(1999)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA