

Product Data Sheet

Product Name: Adoprazine

Cat. No.: GC35252

Chemical Properties

Cas. No. 222551-17-9

SMILES FC1=CC=C(C2=CN=CC(CN3CCN(C4=C5OCCOC5=CC=C4)CC3)=C2)C=C1

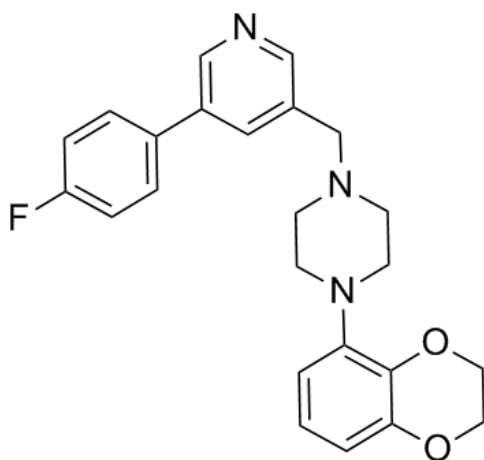
Formula $C_{24}H_{24}FN_3O_2$ M.Wt 405.46

Solubility DMSO: 50 mg/mL (123.32 mM); Storage Store at -20°C
Water: < 0.1 mg/mL (insoluble)

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

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

Structure



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

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Background

Adoprazine, a potential atypical antipsychotic bearing potent D2 receptor antagonist and 5-HT_{1A} receptor agonist properties. IC₅₀ Value: N/A Target: Dopamine Receptor; 5-HT Receptor Adoprazine is a full 5-HT_{1A} receptor agonist and full D_{2/3} receptor antagonist possessing characteristics of an atypical antipsychotic, representing a potential novel treatment for schizophrenia.

[1]. Auclair AL, Kleven MS, Barret-GrÉvoz C, Barreto M, Newman-Tancredi A, DepoortÈre R. Differences among conventional, atypical and novel putative D(2)/5-HT(1A) antipsychotics on catalepsy-associated behaviour in cynomolgus monkeys. Behav Brain Res. 2009 N [2]. Lange JH, Reinders JH, Tolboom JT, Glennon JC, Coolen HK, Kruse CG. Principal component analysis differentiates the receptor binding profiles of three antipsychotic drug candidates from current antipsychotic drugs. J Med Chem. 2007 Oct 18;50(21):5103-8. [3]. McCreary AC, Glennon JC, Ashby CR Jr, Meltzer HY, Li Z, Reinders JH, Hesselink MB, Long SK, Herremans AH, van Stuivenberg H, Feenstra RW, Kruse CG. SLV313 (1-(2,3-dihydro-benzo[1,4]dioxin-5-yl)-4- [5-(4-fluoro-phenyl)-pyridin-3-ylmethyl]-piperazine monoh [4]. Feenstra RW, van den Hoogenband A, Stroomer CN, van Stuivenberg HH, Tulp MT, Long SK, van der Heyden JA, Kruse CG. SAR study of 1-aryl-4-(phenylaryl)methylpiperazines as ligands for both dopamine D₂ and serotonin 5-HT_{1A} receptors showing varying degrees [5]. Cosi C, Carilla-Durand E, AssiÉ MB, Ormiere AM, Maraval M, Leduc N, Newman-Tancredi A. Partial agonist properties of the antipsychotics SSR181507, aripiprazole and bifeprunox at dopamine D₂ receptors: G protein activation and prolactin release. Eur J Ph

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