

Product Data Sheet

Product Name: LY 344864 hydrochloride

Cat. No.: GC36501

Chemical Properties

Cas. No. 1217756-94-9

SMILES O=C(NC1=CC2=C(NC3=C2C[C@H](N(C)C)CC3)C=C1)C4=CC=C(F)C=C4.[H]Cl

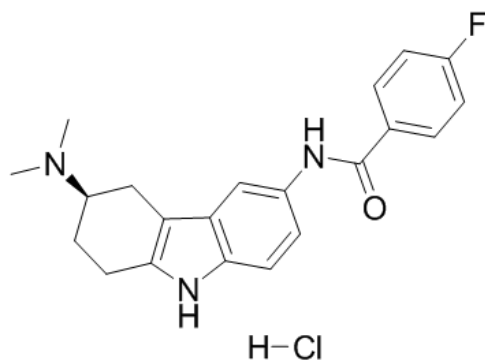
Formula $C_{21}H_{23}ClFN_3O$ M.Wt 387.88

Solubility DMF: 3mg/mL, DMSO: 10mg/mL, DMSO:PBS (pH 7.2) (1:3): 0.25mg/mL
Storage Store at -20°C

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



Background

LY 344864 hydrochloride is a selective 5-HT_{1F} agonist with a K_i of 6 nM. 5-HT_{1F} Receptor|6 nM (K_i)

LY344864 is a selective receptor agonist with an affinity of 6 nM (K_i) at the recently cloned 5-HT_{1F} receptor. It possesses little affinity for the 56 other serotonergic and non-serotonergic neuronal binding sites examined. When examined for its ability to inhibit forskolin-induced cyclic AMP

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

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accumulation in cells stably transfected with human 5-HT_{1F} receptors, LY344864 is shown to be a full agonist producing an effect similar in magnitude to serotonin itself[1].

After an intravenous dose of 1 mg/kg, rat plasma LY344864 levels decline with time whereas brain cortex levels remain relatively constant for the first 6 hours after injection. Oral and intravenous LY344864 administration potently inhibit dural protein extravasation caused by electrical stimulation of the trigeminal ganglion in rats[1]. Co-injection of LY 344864 and systemically ineffective doses of METH significantly decreases preference scores and the rewarding properties of METH during the reinstatement phase. In addition, administration of LY 344864 has no effect on the acquisition of CPP in rats[2].

[1]. Phebus LA, et al. Characterization of LY344864 as a pharmacological tool to study 5-HT_{1F} receptors: binding affinities, brain penetration and activity in the neurogenic dural inflammation model of migraine. Life Sci. 1997;61(21):2117-26. [2]. Shahidi S, et al. Intracerebroventricular microinjection of the 5-HT_{1F} receptor agonist LY 344864 inhibits methamphetamine conditioned place preference reinstatement in rats. Pharmacol Biochem Behav. 2018 Aug 2.

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