

## 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 C21H23ClFN3O 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

LY344864 is an agonist of the serotonin (5-HT) receptor subtype 5-HT<sub>1F</sub> ( $K_i = 6 \text{ nM}$ ).<sup>1</sup> It is selective for 5-HT<sub>1F</sub> over 5-HT<sub>1A-E</sub>, 5-HT<sub>2A-C</sub>, and 5-HT<sub>7</sub> receptors ( $K_i$ s = 0.53-4.85  $\mu\text{M}$ ), as well as dopamine D<sub>1</sub> and D<sub>2</sub>, GABA<sub>A</sub>, histamine H<sub>1</sub>, muscarinic, and  $\alpha_1$ -,  $\alpha_2$ -, and  $\beta$ -adrenergic receptors with  $K_i$  values ranging from 3.69 to greater than 100  $\mu\text{M}$ .

LY344864 inhibits forskolin-induced cAMP accumulation in L-M(TK-) cells expressing recombinant human 5-HT<sub>1F</sub> receptors with an EC<sub>50</sub> value of 3 nM. It decreases electrically stimulated extravasation of plasma proteins in the dura mater in a rat trigeminal nerve model of migraine headache (ID<sub>50</sub>s = 0.6 and 2.1 ng/kg for i.v. and oral administration, respectively).

1. Phebus, L.A., Johnson, K.W., Zgombick, J.M., et al. Characterization of LY344864 as a pharmacological tool to study 5-HT<sub>1F</sub> receptors: Binding affinities, brain penetration and activity in the neurogenic dural inflammation model of migraine. *Life Sci.* 61(21):2117-2126 (1997)

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

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