

LY 344864

Catalog No: tcsc1350



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

186544-26-3

Formula:

$C_{21}H_{22}FN_3O$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 350 mg/mL (995.96 mM)

Observed Molecular Weight:

351.42

Product Description

LY344864 is a selective receptor agonist with an affinity of 6 nM (Ki) at the recently cloned 5-HT1F receptor.

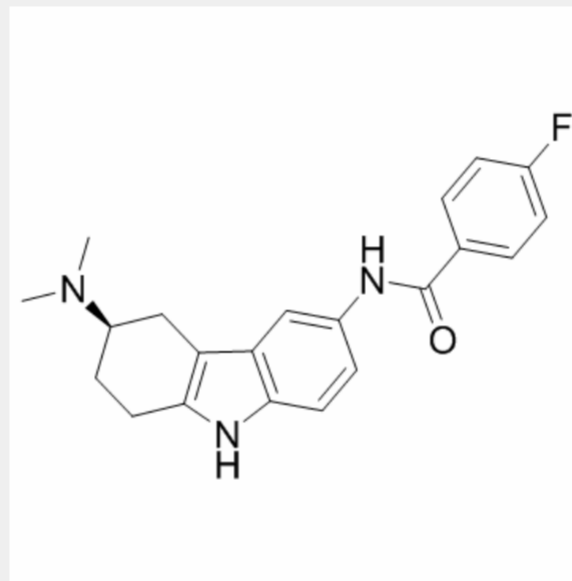
IC50 Value: 6 nM (Ki) [1]

Target: 5-HT_{1F}

LY344864 possesses little affinity for the 56 other serotonergic and non-serotonergic neuronal binding sites examined [1].

in vitro: the 5-HT_{1A}, 5-HT_{1B} and 5-HT_{1D} receptor agonists 8-OH-DPAT (3 μM), CP93129 (3 μM) and L694247 (3 μM), but not the 5-HT_{1F} receptor agonist LY344864 (1 - 3 μM) inhibited evoked IPSCs [2].

in vivo: After an intravenous dose of 1 mg/kg, rat plasma LY344864 levels declined with time whereas brain cortex levels remained relatively constant for the first 6 hours after injection. Oral and intravenous LY344864 administration potently inhibited dural protein extravasation caused by electrical stimulation of the trigeminal ganglion in rats [1]. Sumatriptan, zolmitriptan, rizatriptan, and naratriptan all contracted the rabbit saphenous vein from baseline tone, whereas LY344864 in concentrations up to 10⁻⁴ M did not contract the rabbit saphenous vein. Furthermore, vascular contractions to sumatriptan were markedly augmented in the presence of prostaglandin F_{2α} (PGF_{2α}). However, even in the presence of PGF_{2α} (3 × 10⁻⁷ M), LY344864 did not contract the rabbit saphenous vein in concentrations well in excess of its 5-HT_{1F} receptor affinity (pK_i = 8.2) [3].



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