

# 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 :  $\geq 350$  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.

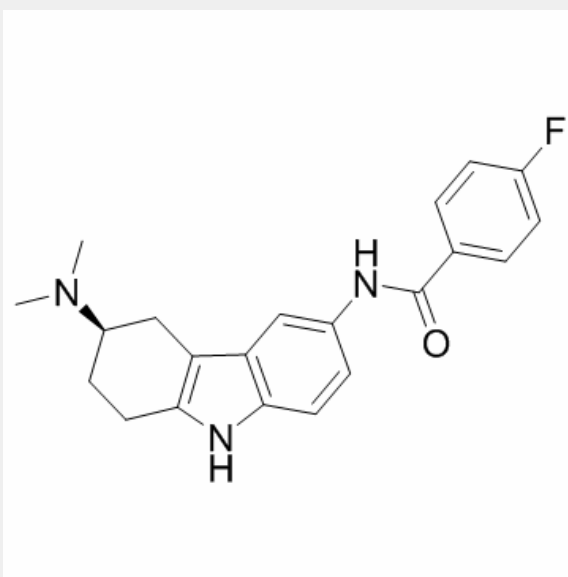
IC50 Value: 6 nM (Ki) [1]

Target: 5-HT<sub>1F</sub>

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

in vitro: the 5-HT<sub>1A</sub>, 5-HT<sub>1B</sub> and 5-HT<sub>1D</sub> receptor agonists 8-OH-DPAT (3 µM), CP93129 (3 µM) and L694247 (3 µM), but not the 5-HT<sub>1F</sub> 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<sup>-4</sup> M did not contract the rabbit saphenous vein. Furthermore, vascular contractions to sumatriptan were markedly augmented in the presence of prostaglandin F<sub>2α</sub> (PGF<sub>2α</sub>). However, even in the presence of PGF<sub>2α</sub> (3 × 10<sup>-7</sup> M), LY344864 did not contract the rabbit saphenous vein in concentrations well in excess of its 5-HT<sub>1F</sub> receptor affinity (pK<sub>i</sub> = 8.2) [3].



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