

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.

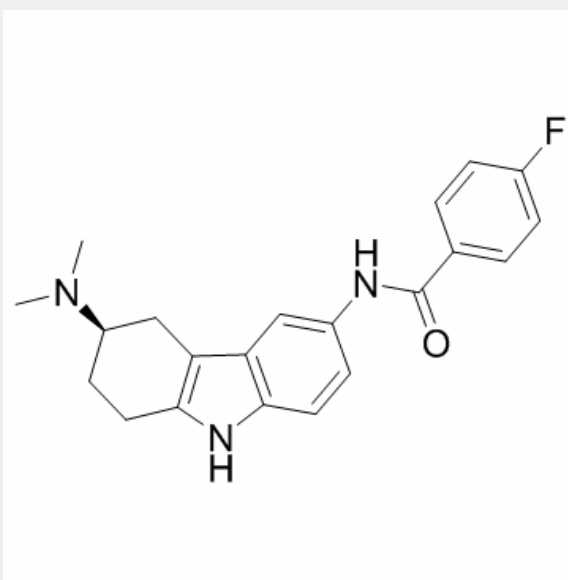
IC50 Value: 6 nM (Ki) [1]

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 μ M), CP93129 (3 μ M) and L694247 (3 μ M), but not the 5-HT_{1F} receptor agonist LY344864 (1 - 3 μ M) 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(2 α) (PGF(2 α)). However, even in the presence of PGF(2 α) (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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