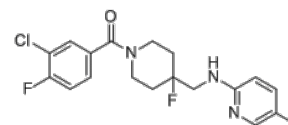


Product Name : Befiradol
Cat. No. : PC-61625
CAS No. : 208110-64-9
Molecular Formula : C₂₀H₂₂ClF₂N₃O
Molecular Weight : 393.857
Target : 5-HT Receptor
Solubility : 10 mM in DMSO



Biological Activity

Befiradol (F13640, NLX-112) is a highly potent, selective **5-HT_{1A}** receptor agonist with K_i of 2.7 nM.

Befiradol (F13640, NLX 112) exhibits agonist efficacy greater than for (±)8-OH-DPAT or buspirone.

Befiradol (F13640, NLX 112) stimulates 'total G-proteins', but unlike (±)8-OH-DPAT and buspirone, more potent for G_{αo} activation, in rat hippocampal membranes.

Befiradol (F13640, NLX 112) dose-dependently decreases extracellular 5-HT in the hippocampus and mPFC in rats, activates both 5-HT(1A) autoreceptors and postsynaptic 5-HT(1A) receptors in prefrontal cortex with a similar potency.

References

Bollinger S, et al. *J Med Chem*. 2010 Oct 14;53(19):7167-79.

Lladó-Pelfort L, et al. *Psychopharmacology (Berl)*. 2012 May;221(2):261-72.

Newman-Tancredi A, et al. *J Pharm Pharmacol*. 2017 Sep;69(9):1178-1190.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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