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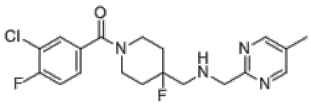
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	NLX-101
Cat. No.	:	PC-73308
CAS No.	:	635323-95-4
Molecular Formula	:	$C_{19}H_{21}ClF_2N_4O$
Molecular Weight	:	394.85
Target	:	5-HT Receptor
Solubility	:	10 mM in DMSO



Biological Activity

NLX-101 (F15599) is a potent, highly selective post-synaptic **5-HT1A** receptor agonist with Ki of 3.4 nM.
NLX-101 (F15599) is over 1000-fold selective with respect to the other 5-HT1 receptor subtypes, 5-HT2-7 receptor families, and also numerous GPCRs, transporters, ion channels, and enzymes.
NLX-101 (F15599) activates h5-HT1A receptors with an efficacy superior to that of the prototypical 5-HT1A agonist (+/-)-8-OH-DPAT in cellular model of signal transduction.
NLX-101 (F15599), unlike 5-HT, more potently and efficaciously stimulated G(αi) than G(αo) activation.
NLX-101 (F15599) potently activated ERK1/2 phosphorylation and strongly induced c-fos mRNA expression in rat prefrontal cortex.
NLX-101 (F15599) attenuates muscular hyperalgesia in reserpine-induced myalgia model.

References

Maurel JL, et al. ***J Med Chem.*** 2007 Oct 4;50(20):5024-33.

Newman-Tancredi A, et al. ***Br J Pharmacol.*** 2009 Jan;156(2):338-53.

Assié MB, et al. ***Int J Neuropsychopharmacol.*** 2010 Nov;13(10):1285-98.

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