MOLNOVA
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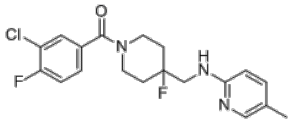
Datasheet (Version 1.0)

Product Name	:	Befiradol
Synonyms	:	F 13640;NLX 112
Cat No.	:	M13242
CAS Number	:	208110-64-9
Molecular Formula	:	C20H22ClF2N3O
Formula Weight	:	393.86
Chemical Name	:	(3-chloro-4-fluorophenyl)-[4-fluoro-4-[[(5-methylpyridin-2-yl)methylamino]methyl]piperidin-1-yl]methanone
Description	:	Befiradol (F13640, NLX 112) is a highly potent, selective 5-HT1A receptor agonist with Ki of 2.7 nM; exhibits agonist efficacy greater than for (±)8-OH-DPAT or buspirone; stimulates 'total G-proteins', but unlike (±)8-OH-DPAT and buspirone, more potent for Gαo activation, in rat hippocampal membranes; 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.Pain Discontinued
Pathway	:	Endocrinology/Hormones
Target	:	5-HT Receptor
Receptor	:	5-HT Receptor
Solubility	:	——
SMILES	:	O=C(C1=CC=C(F)C(Cl)=C1)N2CCC(CN(C3=NC=C(C)C=C3)C)(F)CC2
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Bollinger S, et al. J Med Chem. 2010 Oct 14;53(19):7167-79.| 2. Lladó-Pelfort L, et al. Psychopharmacology (Berl). 2012 May;221(2):261-72.| 3. Newman-Tancredi A, et al. J Pharm Pharmacol. 2017 Sep;69(9):1178-1190.