

NLX-204 hydrochloride (2170405-10-2 free base)

Chemical Properties

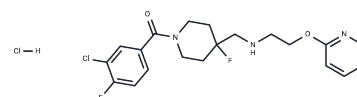
CAS No. :

Formula: C₂₀H₂₃Cl₂F₂N₃O₂

Molecular Weight: 409.13

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	NLX-204 hydrochloride is a potent and selective ERK1/2 phosphorylation-preferring serotonin 5 HT1A receptor agonist(pK _i = 10.19).
Targets(IC ₅₀)	5-HT Receptor
In vivo	NLX-204, displayed high selectivity in the SafetyScreen44 panel (including hERG channel), high solubility, metabolic stability, and Caco-2 penetration and did not block CYP3A4, CYP2D6 isoenzymes, or P-glycoprotein. Preliminary in vivo studies confirmed its promising pharmacokinetic profile. NLX-204 also robustly stimulated ERK1/2 phosphorylation in rat cortex and showed highly potent (MED = 0.16 mg/kg) and efficacious antidepressant-like activity, totally eliminating immobility in the rat Porsolt test.

Solubility Information

Solubility	DMSO: 11 mg/mL (26.89 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4442 mL	12.2211 mL	24.4421 mL
5 mM	0.4888 mL	2.4442 mL	4.8884 mL
10 mM	0.2444 mL	1.2221 mL	2.4442 mL
50 mM	0.0489 mL	0.2444 mL	0.4888 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Sniecikowska, Joanna, Głuch-Lutwin, Monika, Bucki, Adam, et al. Novel aryloxyethyl derivatives of 1-(1-benzoylpiperidin-4-yl)methanamine as the Extracellular Regulated Kinases 1/2 (ERK1/2) phosphorylation-

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