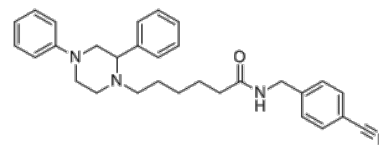


Product Name : LP-211
Cat. No. : PC-73300
CAS No. : 1052147-86-0
Molecular Formula : C₃₀H₃₄N₄O
Molecular Weight : 466.629
Target : 5-HT Receptor
Solubility : 10 mM in DMSO



Biological Activity

LP-211 is a potent, selective, and brain penetrant **5-HT₇** receptor agonist with K_i of 0.58 nM, high selectivity over 5-HT_{1A} receptor (K_i, 188 nM) and D₂ receptor (K_i, 142 nM).

LP-211 displays excellent selectivity profile over a panel of 5-HT receptor subtypes.]

LP-211 (0.25 and 0.50 mg/kg i.p.) improves consolidation of chamber-shape memory in rats, resulting in significant novelty-induced hyperactivity and recognition.

LP-211 (0.003-0.3 mg/kg, i.p.) significantly increases the micturition volume in a dose-dependent manner, and causes significant increases in voiding efficiency in spinal cord-injured (SCI) rats, and such effects can be completely reversed by 5-HT₇ antagonist SB-269970.

References

Hedlund PB, et al. *Neurosci Lett*. 2010 Aug 30;481(1):12-6.

Leopoldo M, et al. *J Med Chem*. 2008 Sep 25;51(18):5813-22.

Speranza L, et al. *Neuropharmacology*. 2013 Apr;67:155-67.

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

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