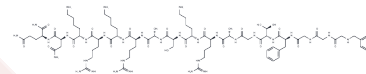


UFP-101

Chemical Properties

CAS No. : 849024-68-6
 Formula: C₈₂H₁₃₈N₃O₂
 Molecular Weight: 1908.19
 Storage: Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Potent, selective and competitive silent antagonist for the NOP opioid receptor. Binds to NOP with high affinity (pK _i = 10.24) and displays > 3000-fold selectivity over δ, μ and κ opioid receptors. Antinociceptive and opposes the action of nociceptin in vivo.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5241 mL	2.6203 mL	5.2406 mL
5 mM	0.1048 mL	0.5241 mL	1.0481 mL
10 mM	0.0524 mL	0.262 mL	0.5241 mL
50 mM	0.0105 mL	0.0524 mL	0.1048 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Calo et al (2002) [Nphe1,Arg14,Lys15]Nociceptin-NH₂, a novel potent and selective antagonist of the nociceptin/orphanin FQ receptor. Br.J.Pharmacol. 136 303 PMID:

Gavioli et al (2003) Blockade of nociceptin/orphanin FQ-NOP receptor signalling produces antidepressant-like effects: pharmacological and genetic evidences from the mouse forced swimming test. Eur.J.Neurosci. 17 1987 PMID:

Marti et al (2003) Pharmacological profiles of presynaptic nociceptin/orphanin FQ receptors modulating 5-hydroxytryptamine and noradrenaline release in the rat neocortex. Br.J.Pharmacol. 138 91 PMID:

McDonald et al (2003) UFP-101, a high affinity antagonist for the nociceptin/orphanin FQ receptor: radioligand and GTPγ35 binding studies. Naunyn Schmiedebergs Arch.Pharmacol. 367 183 PMID:

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