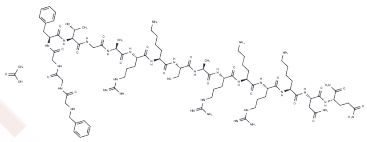
Data Sheet (Cat.No.TP2105L)

TargetMol

UFP-101 acetate

Chemical Properties



CAS No. :

Formula: C84H142N32O23

Molecular Weight: 1968.23

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	UFP-101 acetate is a selective and competitive antagonist of the NOP receptor (pKi = 10.24) with >3000-fold selectivity over δ, μ, and κ opioid receptors.
Targets(IC50)	Opioid Receptor
In vivo	In mice submitted to the forced swimming test, UFP-101 acetate elicits a pronounced acute and dose-dependent antidepressant-like effect[2].

Solubility Information

Solubility	H2O: 83.3 mg/mL (42.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5081 mL	2.5404 mL	5.0807 mL
5 mM	0.1016 mL	0.5081 mL	1.0161 mL
10 mM	0.0508 mL	0.254 mL	0.5081 mL
50 mM	0.0102 mL	0.0508 mL	0.1016 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

Gavioli EC, et al. 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. 2003;17(9): 1987-1990.

Calo G, et al. [Nphe1,Arg14,Lys15]nociceptin-NH2, a novel potent and selective antagonist of the nociceptin/orphanin FQ receptor. Br J Pharmacol. 2002;136(2):303-311.

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