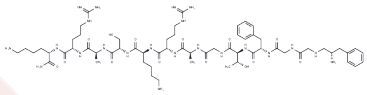
Data Sheet (Cat.No.TP1988)

TargetMol

[Phe1Ψ(CH2-NH)Gly2]Nociceptin(1-13)NH2

Chemical Properties



CAS No. : 213130-17-7

Formula: C61H102N22O14

Molecular Weight: 1367.6

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 agonist of the nociceptin (ORL1) receptor, demonstrated both in vitro and in vivo. Selective, competitive antagonism at the nociceptin receptor has also been reported (pA2 = 7.02 and 6.75 in the guinea pig ileum and mouse vas deferens respectively).
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	H2O: 0.7 mg/mL (0.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7312 mL	3.656 mL	7.3121 mL
5 mM	0.1462 mL	0.7312 mL	1.4624 mL
10 mM	0.0731 mL	0.3656 mL	0.7312 mL
50 mM	0.0146 mL	0.0731 mL	0.1462 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

Guerrini et al (1997) Address and message sequences for the nociceptin receptor: a structure-activity study of nociceptin (1-13)-peptide amide. J.Med.Chem. 40 1789 PMID:
Guerrini et al (1998) A new selective antagonist of the nociceptin receptor. Br.J.Pharmacol. 123 163 PMID:
Okawa et al (1999) Comparison of the effects of [Phe1ω(CH2-NH)Gly2-nociceptin-(1-13)NH2 in rat brain, rat vas deferens and CHO cells expressing recombinant human nociceptin receptors. Br.J.Pharmacol. 127 123 PMID:
Xu et al (1998) [Phe1ω(CH2-NH)Gly2-nociceptin-(1-13)NH2, a proposed antagonist of the nociceptin receptor, is a potent and stable agonist in the rat spinal cord. Neurosci.Lett. 249 127 PMID:

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