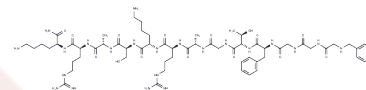


[Nphe1]Nociceptin(1-13)NH₂

Chemical Properties

CAS No. :	267234-08-2
Formula:	C ₆₁ H ₁₀₀ N ₂₂ O ₁₅
Molecular Weight:	1381.6
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Selective and competitive nociceptin receptor antagonist, devoid of any agonist activity. Binds selectively to recombinant nociceptin receptors (pK _i = 8.4), and competitively antagonizes the actions of nociceptin in vitro and in vivo.
Targets(IC ₅₀)	Opioid Receptor

Solubility Information

Solubility	10% acetonitrile: 1 mg/mL (0.72 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	0.7238 mL	3.619 mL	7.238 mL
5 mM	0.1448 mL	0.7238 mL	1.4476 mL
10 mM	0.0724 mL	0.3619 mL	0.7238 mL
50 mM	0.0145 mL	0.0724 mL	0.1448 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 (2000) Characterization of [Nphe1]nociceptin(1-13)NH₂, a new selective nociceptin receptor antagonist. Br.J.Pharmacol. 129 1183 PMID:

Hashimoto et al (2000) Antagonistic effects of [Nphe1]nociceptin(1-13)NH₂ on nociceptin receptor mediated inhibition of cAMP formation in Chinese hamster ovary cells stably expressing the recombinant human nociceptin receptor. Neurosci.Lett. 278 109 PMID:

Pheng et al (2000) [Nphe1]nociceptin-(1-13)NH₂ selectively antagonizes nociceptin effects in the rabbit isolated ileum. Eur.J.Pharmacol. 397 383 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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