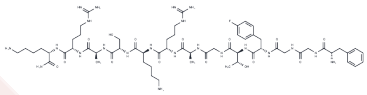
Data Sheet (Cat.No.TP1885)

TargetMol

[(pF)Phe4]Nociceptin(1-13)NH2

Chemical Properties



CAS No. : 380620-88-2

Formula: C61H99FN22O15

Molecular Weight: 1399.6

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	Highly potent and selective nociceptin/orphanin FQ receptor (OP4) agonist peptide (pKi = 10.68; pEC50 = 9.80). Displays > 8000-fold selectivity over δ, κ, and μ opioid receptors and has relatively long lasting pronociceptive, hypotensive, negative inotropic and feeding stimulation effects in vivo.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	H2O: 2 mg/mL (1.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7145 mL	3.5724 mL	7.1449 mL
5 mM	0.1429 mL	0.7145 mL	1.429 mL
10 mM	0.0714 mL	0.3572 mL	0.7145 mL
50 mM	0.0143 mL	0.0714 mL	0.1429 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

Bigoni et al (2002) Pharmacological characterisation of [(pX)Phe4]nociceptin(1-13)amide analogues. 1. In vitro studies. Naunyn Schmiedebergs Arch.Pharmacol. 365 442 PMID:
Guerrini et al (2001) Structure-activity studies of the Phe4 residue of nociceptin(1-13)-NH2: Identification of highly potent agonists of the nociceptin/orphanin FQ receptor. J.Med.Chem. 44 3956 PMID:
Rizzi et al (2002) Pharmacological characterisation of [(pX)Phe4]nociceptin(1-13)amide analogues. 2. In vivo studies. Naunyn Schmiedebergs Arch.Pharmacol. 365 450 PMID:

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