

[(pF)Phe4]Nociceptin(1-13)NH<sub>2</sub> acetate

## Chemical Properties

CAS No. :

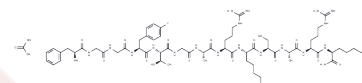
Formula: C<sub>63</sub>H<sub>103</sub>FN<sub>22</sub>O<sub>17</sub>

Molecular Weight: 1459.63

Keep away from moisture

Storage: 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	[(pF)Phe4]Nociceptin(1-13)NH <sub>2</sub> acetate is a selective agonist of NOP receptor with a pK <sub>i</sub> of 10.68 and a pEC <sub>50</sub> of 9.31. [(pF)Phe4]Nociceptin(1-13)NH <sub>2</sub> acetate displays high selectivity over δ, κ, and μ opioid receptors (>3000 fold).
Targets(IC <sub>50</sub> )	Opioid Receptor
In vivo	In unanaesthetised normotensive mice, [(pF)Phe4]Nociceptin(1-13)NH <sub>2</sub> acetate (100 nmol/kg; i.c.v.) dose-dependently stimulated feeding in rats and is about tenfold more potent than NC(1-13)NH <sub>2</sub> . [(pF)Phe4]Nociceptin(1-13)NH <sub>2</sub> acetate (100 nmol/kg; i.v.) decreases mean blood pressure and heart rate; these effects are longer lasting than those elicited by the same dose of NC(1-13)NH <sub>2</sub> [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6851 mL	3.4255 mL	6.8511 mL
5 mM	0.137 mL	0.6851 mL	1.3702 mL
10 mM	0.0685 mL	0.3426 mL	0.6851 mL
50 mM	0.0137 mL	0.0685 mL	0.137 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 R, et al. Pharmacological characterisation of [(pX)Phe4]nociceptin(1-13)amide analogues. 1. In vitro studies. *Naunyn Schmiedebergs Arch Pharmacol.* 2002;365(6):442-449.
- Guerrini R, et al. Structure-activity studies of the Phe(4) residue of nociceptin(1-13)-NH(2): identification of highly potent agonists of the nociceptin/orphanin FQ receptor. *J Med Chem.* 2001;44(23):3956-3964.
- Rizzi A, et al. Pharmacological characterisation of [(pX)Phe4]nociceptin(1-13)NH2 analogues. 2. In vivo studies. *Naunyn Schmiedebergs Arch Pharmacol.* 2002;365(6):450-456.

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