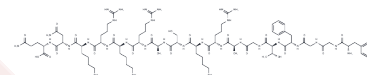


[Arg14,Lys15]Nociceptin

## Chemical Properties

CAS No. : 236098-40-1  
 Formula: C82H137N31O22  
 Molecular Weight: 1909.18  
 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 NOP receptor agonist (EC <sub>50</sub> = 1 nM). Displays > 875-fold selectivity over opioid receptors (IC <sub>50</sub> values are 0.32, 280, > 10000 and 1500 for NOP, $\mu$ , $\delta$ and $\kappa$ receptors respectively). Longer lasting and 30-fold more potent than nociceptin in vivo; pronociceptive and inhibits locomotor activity.
Targets(IC <sub>50</sub> )	Opioid Receptor

## Solubility Information

Solubility	H <sub>2</sub> O: 1 mg/mL (0.52 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	0.5238 mL	2.6189 mL	5.2379 mL
5 mM	0.1048 mL	0.5238 mL	1.0476 mL
10 mM	0.0524 mL	0.2619 mL	0.5238 mL
50 mM	0.0105 mL	0.0524 mL	0.1048 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 (2002) Pharmacological profile of nociceptin/orphanin FQ receptors. Clin.Exp.Pharmacol.Physiol. 29 223  
PMID:

Okada et al (2000) Highly potent nociceptin analog containing the Arg-Lys triple repeat. Biochem.Biophys.Res.  
Commun. 278 493 PMID:

Rizzi et al (2002) [Arg14,Lys15]Nociceptin, a highly potent agonist of the nociceptin/orphanin FQ receptor: in vitro  
and in vivo studies. J.Pharmacol.Exp.Ther. 300 57 PMID:

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481