

## Orphanin FQ(1-11) acetate(178249-41-7 free base)

## Chemical Properties

CAS No. :

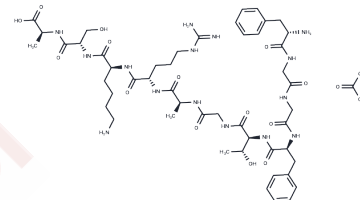
Formula: C51H79N15O16

Molecular Weight: 1158.26

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	Orphanin FQ(1-11) acetate(178249-41-7 free base) is a peptide fragment containing amino acids 1-11 of Nociceptin. Orphanin FQ(1-11) acetate(178249-41-7 free base) is a potent agonist of the ORL1/KOR-3 receptor (K <sub>i</sub> = 55 nM) and displays no affinity for opioid receptors, including μ, δ, κ1 and κ3 receptors (K <sub>i</sub> >1000 nM). Orphanin FQ(1-11) acetate(178249-41-7 free base) displays analgesic properties in CD-1 mice.
Targets(IC50)	Opioid Receptor

## Solubility Information

Solubility	DMSO: 10 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	0.8634 mL	4.3168 mL	8.6336 mL
5 mM	0.1727 mL	0.8634 mL	1.7267 mL
10 mM	0.0863 mL	0.4317 mL	0.8634 mL
50 mM	0.0173 mL	0.0863 mL	0.1727 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

Rossi et al (1997) Pharmacological characterization of orphanin FQ/nociceptin and its fragments. J.Pharmacol.Exp. Ther. 282 858 PMID:

Rossi et al (1998) Orphanin FQ/nociceptin analgesia in the rat. Brain Res. 792 327 PMID:

Reinscheid et al (1996) Structure-activity relationship studies on the novel neuropeptide orphanin FQ. J.Biol.Chem. 271 14163 PMID:

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