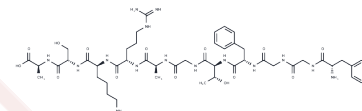


Orphanin FQ(1-11)

Chemical Properties

CAS No. :	178249-41-7
Formula:	C49H75N15O14
Molecular Weight:	1098.2
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	Orphanin FQ(1-11) is a peptide fragment containing amino acids 1-11 of Nociceptin. Orphanin FQ(1-11) is a potent agonist of the ORL1/KOR-3 receptor ($K_i = 55$ nM) and displays no affinity for opioid receptors, including μ , δ , κ_1 and κ_3 receptors ($K_i > 1000$ nM). Orphanin FQ(1-11) displays analgesic properties in CD-1 mice.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	20% acetonitrile / water: 2 mg/mL (1.82 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	0.9106 mL	4.5529 mL	9.1058 mL
5 mM	0.1821 mL	0.9106 mL	1.8212 mL
10 mM	0.0911 mL	0.4553 mL	0.9106 mL
50 mM	0.0182 mL	0.0911 mL	0.1821 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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