

RFRP-3(human)

Chemical Properties

CAS No. : 311309-27-0

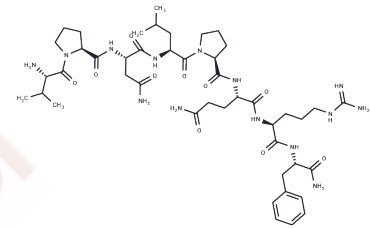
Formula: C45H72N14O10

Molecular Weight: 969.15

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	Agonist of the NPFF1 receptor (IC ₅₀ = 0.7 nM for inhibition of forskolin-induced cAMP production). Homolog of gonadotropin-inhibitory hormone (GnIH); inhibits activity of gonadotropin-releasing hormone (GnRH) neurons.
Targets(IC ₅₀)	Neuropeptide Y Receptor

Solubility Information

Solubility	H ₂ O: 2 mg/mL (2.06 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	1.0318 mL	5.1592 mL	10.3183 mL
5 mM	0.2064 mL	1.0318 mL	2.0637 mL
10 mM	0.1032 mL	0.5159 mL	1.0318 mL
50 mM	0.0206 mL	0.1032 mL	0.2064 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

Rizwan et al (2012) RFamide-related peptide-3 receptor gene expression in GnRH and kisspeptin neurons and GnRH-dependent mechanism of action. *Endocrinology* 153 3770 PMID:

Ubuka et al (2009) Identification of human GnIH homologs, RFRP-1 and RFRP-3, and the cognate receptor, GPR147 in the human hypothalamic pituitary axis. *PLoS One* 4 e8400 PMID:

Hinuma et al (2000) New neuropeptides containing carboxy-terminal RFamide and their receptor in mammals. *Nat. Cell Biol.* 2 703 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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