

RFRP-1 (human) acetate(311309-25-8 free base)

Chemical Properties

CAS No. :

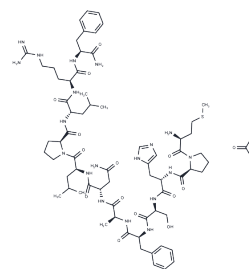
Formula: C₆₉H₁₀₅N₁₉O₁₆S

Molecular Weight: 1488.77

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	RFRP-1 (human) acetate is a potent endogenous NPFF receptor agonist (EC ₅₀ values are 0.0011 and 29 nM for NPFF2 and NPFF1, respectively). Attenuates contractile function of isolated rat and rabbit cardiac myocytes. Reduces heart rate, stroke volume, ejection fraction and cardiac output, and increases plasma prolactin levels in rats. GnIH homolog.
Targets(IC ₅₀)	Neuropeptide FF 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	0.6717 mL	3.3585 mL	6.717 mL
5 mM	0.1343 mL	0.6717 mL	1.3434 mL
10 mM	0.0672 mL	0.3358 mL	0.6717 mL
50 mM	0.0134 mL	0.0672 mL	0.1343 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

Gouardères et al (2006) Functional differences between NPFF1 and NPFF2 receptor coupling: high intrinsic activities of RFamide-related peptides on stimulation of [35S]GTPγS binding. *Neuropharmacology* 52 376 PMID:
Nichols et al (2010) Human RFamide-related peptide-1 diminishes cellular and integrated cardiac contractile performance. *Peptides* 31 2067 PMID:
Hinuma et al (2000) New neuropeptides containing carboxy-terminal RFamide and their receptor in mammals. *Nat.Cell.Biol.* 2 703 PMID:

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