

Prolactin Releasing Peptide (1-31), human acetate

Chemical Properties

CAS No. :

Formula: C162H26N56O44S

Molecular Weight: 3724.17

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	Prolactin Releasing Peptide (1-31), human (acetate), is a potent GPR10 ligand with high affinity, eliciting prolactin secretion. It binds to human and rat GPR10 with K _i values of 1.03 nM and 0.33 nM, respectively, and serves as a tool for researching the hypothalamo-pituitary axis [1] [2].
Targets(IC50)	GNRH Receptor
In vitro	Prolactin Releasing Peptide (1-31), human (acetate), shows high affinity for the GPR10 receptor in humans and rats, with K _i values of 1.03 nM and 0.33 nM, respectively [1].
In vivo	Prolactin Releasing Peptide (1-31), human (acetate), administered intracerebroventricularly (ICV) at 5 nM, enhances plasma follicle-stimulating hormone (FSH), elevates total plasma testosterone levels, and significantly augments luteinizing hormone-releasing hormone (LHRH) release from in vitro hypothalamic explants [2]. At 100 nM ICV, it upregulates hypothalamic peptides regulating pituitary hormone secretion, specifically vasoactive intestinal peptide (VIP) and galanin, without affecting orexin A secretion [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2685 mL	1.3426 mL	2.6852 mL
5 mM	0.0537 mL	0.2685 mL	0.537 mL
10 mM	0.0269 mL	0.1343 mL	0.2685 mL
50 mM	0.0054 mL	0.0269 mL	0.0537 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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