

Prolactin Releasing Peptide (1-31), human acetate

Cat. No.:	HY-P1520A
Molecular Formula:	C ₁₆₂ H ₂₆ N ₅₆ O ₄₄ S
Molecular Weight:	3724.17
Sequence:	Ser-Arg-Thr-His-Arg-His-Ser-Met-Glu-Ile-Arg-Thr-Pro-Asp-Ile-Asn-Pro-Ala-Trp-Tyr-Ala-Ser-Arg-Gly-Ile-Arg-Pro-Val-Gly-Arg-Phe-NH ₂ <small>SRTHRHSMEIRTPDINPAWYASRGIRPVGRF-NH₂ (acetate salt)</small>
Sequence Shortening:	SRTHRHSMEIRTPDINPAWYASRGIRPVGRF-NH ₂
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (3.36 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		0.2685 mL	1.3426 mL	2.6852 mL
		5 mM		---	---	---
10 mM			---	---	---	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.25 mg/mL (0.34 mM); Clear solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.25 mg/mL (0.34 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Prolactin Releasing Peptide (1-31), human (acetate) is a high affinity GPR10 ligand that causes the release of the prolactin. Prolactin Releasing Peptide (1-31) binds to GPR10 for human and rats with K _i values of 1.03 nM and 0.33 nM, respectively. Prolactin Releasing Peptide (1-31) can be used for the research of the hypothalamo-pituitary axis ^{[1][2]} .
In Vitro	Prolactin Releasing Peptide (1-31), human (acetate) binds to GPR10 for human and rats with K _i values of 1.03 nM and 0.33 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Prolactin Releasing Peptide (1-31), human (acetate) (ICV, 5 nM) increases plasma FSH, total plasma testosterone and significantly increased the release of LHRH from hypothalamic explants in vitro^[2].

Prolactin Releasing Peptide (1-31) (human) (ICV, 100 nM) increases the hypothalamic peptides involved in the control of pituitary hormone release, vasoactive intestinal peptide (VIP) and galanin but had no effect on orexin A secretion^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. L J Seal, et al. Prolactin releasing peptide (PrRP) stimulates luteinizing hormone (LH) and follicle stimulating hormone (FSH) via a hypothalamic mechanism in male rats. *Endocrinology*. 2000 May;141(5):1909-12.

[2]. Langmead CJ, et al. Characterization of the binding of [(125)I]-human prolactin releasing peptide (PrRP) to GPR10, a novel G protein coupled receptor. Characterization of the binding of [(125)I]-human prolactin releasing peptide (PrRP) to GPR10, a novel G protein coupled receptor.

Caution: Product has not been fully validated for medical applications. For research use only.

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