Prolactin Releasing Peptide (1-31), human acetate

Cat. No.: HY-P1520A Molecular Formula: $\mathsf{C_{_{162}}H_{_{26}}N_{_{56}}O_{_{44}}S}$ Molecular Weight: 3724.17

 $Ser-Arg-Thr-His-Arg-His-Ser-Met-Glu-Ile-Arg-Thr-Pro-Asp-Ile-Asn-Pro-Ala-Trp-Tyr-Ala-\\ \\ \qquad \qquad \qquad \\ \\ \text{SRTHRHSMEIRTPDINPAWYASRGIRPVGRF-NH}_2 \text{ (accetate sall)} \\$ Sequence:

Product Data Sheet

Ser-Arg-Gly-Ile-Arg-Pro-Val-Gly-Arg-Phe-NH2

Sequence Shortening: SRTHRHSMEIRTPDINPAWYASRGIRPVGRF-NH2

GnRH Receptor Target: Pathway: GPCR/G Protein

Sealed storage, away from moisture and light, under nitrogen Storage:

> 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	V	ľ	tı	r٥

DMSO: 12.5 mg/mL (3.36 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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 hypothalanic peptides involved in the control of pituitary hormone release, vasoactive intestinal peptide (VIP) and galanin but had no effect on orexin A secretion [2].

 $\label{eq:mce} \mbox{MCE has not independently confirmed the accuracy of these methods. They are for reference only.}$

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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