



LKT Laboratories, Inc.

Prolactin-Releasing Peptide (1-31), human

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Product Information

Product ID P6850

CAS No.

Chemical Name

Synonym PrRP-31

Formula $C_{160}H_{252}N_{56}O_{42}S$

Formula Wt. 3664.2

Melting Point

Purity $\geq 98\%$

Solubility Soluble in water (2 mg/mL).

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-NH₂

Bulk quantities available upon request

Product ID	Size
P6850	1 mg

Store Temp -20°C

Ship Temp Ambient

Description Prolactin-releasing peptide (PrP) is an endogenous peptide hormone that binds GPR10 receptors and stimulates leutinizing hormone-releasing hormone (LHRH) release, causing secretion of leutinizing hormone (LH) and follicle-stimulating hormone (FSH) in the hypothalamus. PrP also induces prolactin release in female animals. PrP secretion is increased by food intake and it forms a negative feedback loop by exhibiting anorexigenic activity, decreasing food intake in an oxytocin-dependent manner. PrP exhibits some immunostimulatory and potentially pro-inflammatory activities, increasing expression of pro-inflammatory cytokines and ROS in leukocytes.

References Yamashita M, Takayanagi Y, Yoshida M, et al. Involvement of prolactin-releasing peptide in the activation of oxytocin neurones in response to food intake. *J Neuroendocrinol.* 2013 May;25(5):455-65. PMID: 23363338.

Romero A, Manríquez R, Alvarez C, et al. Prolactin-releasing peptide is a potent mediator of the innate immune response in leukocytes from *Salmo salar*. *Vet Immunol Immunopathol.* 2012 Jun 30;147(3-4):170-9. PMID: 22578983.

Seal LJ, Small CJ, Kim MS, 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. PMID: 10803604.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.