



LKT Laboratories, Inc.

Leptin (116-130), mouse

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Product Information

Product ID L1661

CAS No.

Chemical Name

Synonym

Formula $C_{64}H_{108}N_{18}O_{25}S$

Formula Wt. 1561.73

Melting Point

Purity $\geq 95\%$

Solubility

H-Ser-Cys-Ser-Leu-Pro-Gln-
Thr-Ser-Gly-Leu-Gln-Lys-Pro-
Glu-Ser-OH

Pricing and Availability

Bulk quantities available upon request

| Product ID | Size | List Price |
|------------|--------|------------|
| L1661 | 0.5 mg | \$189.00 |
| L1661 | 1 mg | \$321.40 |
| L1661 | 2.5 mg | \$567.00 |

Store Temp -20°C

Ship Temp Ambient

Description Leptin (116-130) is an active peptide fragment of leptin that increases levels of luteinizing hormone and prolactin. Leptin is an endogenous peptide that binds leptin receptors; it is involved in feeding behavior and energy homeostasis. Leptin exhibits anorexigenic, antihypertensive, and neuroprotective activities. Leptin induces secretion of α -melanocyte-stimulating hormone (α -MSH) and gonadotropin-releasing hormone (GnRH). Leptin (116-130) also decreases release of corticosterone and adrenocorticotrophic hormone (ACTH) from the pituitary gland. In animal models, this peptide fragment of leptin inhibits human chorionic gonadotropin (hCG)-stimulated testosterone secretion as well as luteinizing hormone and follicle-stimulating hormone (FSH) secretion. In obese and diabetic mice, leptin (116-130) decreases blood glucose levels.

References Rozhavskaya-Arena M, Lee DW, Leinung MC, et al. Design of a synthetic leptin agonist: effects on energy balance, glucose homeostasis, and thermoregulation. *Endocrinology*. 2000 Jul;141(7):2501-7. PMID: 10875251.

Malendowicz LK, Tortorella C, Nowak KW, et al. Leptin prolonged administration inhibits the growth and glucocorticoid secretion of rat adrenal cortex. *Endocr Res*. 2000 May;26(2):141-52. PMID: 10921444.

Tena-Sempere M, Pinilla L, González LC, et al. In vitro pituitary and testicular effects of the leptin-related synthetic peptide leptin(116-130) amide involve actions both similar to and distinct from those of the native leptin molecule in the adult rat. *Eur J Endocrinol*. 2000 Apr;142(4):406-10. PMID: 10754484.

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