

Leptin Human

Description: Leptin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16 kDa. The Leptin is purified by proprietary chromatographic techniques.

Synonyms: OB Protein, Obesity Protein, OBS, Obesity factor.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.

Purity: Greater than 95.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO₃.

Stability:

Lyophilized Leptin although stable at room temperature, should be stored desiccated below 0°C. Reconstituted Leptin is best stored refrigerated at 4°C.

Usage:

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Solubility:

The lyophilized Leptin is very soluble in water and most aqueous buffers below and above the isoelectric point.

Introduction:

A 16-kDa peptide hormone secreted from white adipocytes and implicated in the regulation of food intake and energy balance. Leptin provides the key afferent signal from fat cells in the feedback system that controls body fat stores.

Biological Activity:

Biological Activity is evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor.

References:

1. Title: Leptin and Amylin Act in an Additive Manner to Activate Overlapping Signaling Pathways in Peripheral Tissues In vitro and ex vivo studies in humans. Publication: Published online before print September 24, 2010, doi: 10.2337/dc10-0518 Diabetes Care January 2011 vol. 34 no. 1 132-138 .Link: <http://care.diabetesjournals.org/content/34/1/132.full> 2. Title: The Mammalian Target of Rapamycin as Novel Central Regulator of Puberty Onset via Modulation of Hypothalamic Kiss1 System. Publication: Published online before print September 4, 2009, doi: 10.1210/en.2009-0096 Endocrinology November 1, 2009 vol. 150 no. 11 5016-5026

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Link:<http://endo.endojournals.org/content/150/11/5016.full3>. Title: p38 Mitogen-Activated Protein Kinase and Liver X Receptor- Mediate the Leptin Effect on Sterol Regulatory Element Binding

Protein-1c Expression in Hepatic Stellate Cells. Publication: Mol Med. 2012; 18(1): 1018. Published online 2011 October 3. doi:

10.2119/molmed.2011.00243 Link: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3269638/>

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