

Recombinant Mouse Leptin

Cat. No. Lep-16M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Leptin produced in <i>E. Coli</i> 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.
Species	Mouse
Source	E.coli
Description	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.
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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 50 mM NH ₄ H CO ₃ (pH 8.0).
Solubility	It is recommended to reconstitute the lyophilized Leptin in sterile 18 MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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Biological Activity

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

GENE INFORMATION

Gene Name [Lep leptin \[Mus musculus \]](#)

Synonyms Lep; Leptin; ob; obese

Gene ID [16846](#)

mRNA Refseq [NM_008493](#)

Protein Refseq [NP_032519](#)

UniProt ID [P41160](#)

Chromosome Location 6 A3.3; 6 10.5 cM

Pathway Adipocytokine signaling pathway; Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction

Function growth factor activity; hormone activity; protein binding

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