

## Recombinant Mouse Leptin

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Amino Acid Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Formulation</b>	The protein was lyophilized from a concentrated (1mg/ml) solution with 50 mM NH <sub>4</sub> HCO <sub>3</sub> (pH 8.0).
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Leptin in sterile 18 MΩ-cm H <sub>2</sub> O not less than 100 g/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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