

Recombinant Mouse Leptin

Cat. No. Lep-6933M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Lep was overexpressed as insoluble protein aggregate in E. coli and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW: 16 kDa.
Species	Mouse
Source	E.coli
ProteinLength	1-250aa
Description	Lep is a 16-kDa nonglycosylated hormone that is produced in mature adipocytes. Leptin acts primarily in the hypothalamus to reduce food intake and body weight. In ob/ob mice, the gene encoding leptin is mutated, resulting in morbid obesity and associated abnormalities, including hyperphagia, hypothermia, diabetes and infertility.
Form	Liquid. In Phosphate buffered saline (pH 7.4).
Molecular Mass	16 kDa (147 aa), confirmed by MALDI-TOF.
AA Sequence	MVPIQKVQDD TKTLIKTIVT RINDISHTQS VSAKQRTVLG DFIPGLHPIL SLSKMDQTLA VYQQVLTSLP SQNVLQIAND LENLRDLLHL LAFSKSCSLP QTSGQLQKPES LDGVLEASLY STEVVALSRL QGSLQDILQQ LDVSPEC
Purity	>95% by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	Lep leptin [Mus musculus]
Official Symbol	Lep
Synonyms	LEP; leptin; obesity factor; ob; obese;
Gene ID	16846
mRNA Refseq	NM_008493
Protein Refseq	NP_032519
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem;
Function	growth factor activity; hormone activity; peptide hormone receptor binding; protein binding;

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