

Active Recombinant Murine Lep protein

Cat. No. Lep-337M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Murine Lep was expressed in E. coli.
Species	Murine
Source	E.coli
ProteinLength	147 amino acid
Description	Encoded by the ob (obese) gene, Leptin is an adipose-derived cytokine that suppresses appetite and increases thermogenesis. Leptin exerts its anorectic effect via signaling through a hypothalamic receptor termed OB-R. Leptin has been shown to reduce body weight, food consumption, and plasma glucose levels in various in vivo models.
Form	Sterile filtered through a 0.2 micron filter. Lyophilized with 0.1% TFA.
Bio-activity	Creative BioMart's murine Leptin has been shown to be biologically active in two different mouse obesity models, ob/ob and NZO. Both strains of mice were treated via intraperitoneal injection once daily at a dose of 5 g Leptin/gm of body weight.
Molecular Mass	16.2 kDa
AA Sequence	MVPIQKVQD DTKTLIKTI VTRINDISH TQSVSAKQR VTGLDFIPG LHPILSLSK MDQTLAVYQ QVLTSLPSQ NVLQIANDL ENLRDLLHL LAFSKSCSL PQTSGQLQKP ESLDGVLEA SLYSTEVVA LSRLQGS LQ DILQQLDVS PEC

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Endotoxin	<0.1 ng/ug of the protein.
Purity	Above 98% as determined by SDS-PAGE Analysis.
Storage	Stored at -20 centigrade.
Reconstitution	Centrifuge the viral prior to opening. Rconstitute in water to a concentration of 1.0-5.0 mg/ml. Do not vortex. For extened storage, it is recommended to further dilute in a buffer containing a carrier protein(example 0.1% BSA) and store in working aliquots at -20 centigrade to -80 centigrade.

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
MIM	
UniProt ID	P41160
Chromosome Location	6 A3.3; 6 12.3 cM

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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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