

Leptin Active Protein | Lep active protein

Recombinant Mouse Leptin

CATALOG #
AAA38172

HOST
E Coli

PRODUCT SYNONYMS

Leptin; Recombinant Mouse Leptin; Leptin Mouse; Leptin Mouse Recombinant; OB Protein; Obesity Protein; OBS; Obesity factor; mLeptin; Lep active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The mouse Leptin was lyophilized from a concentrated (1mg/ml) solution containing 0.1% TFA. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MVPIQKVQDD TKTLIKTIVT RINDISHTQS VSAKQRTVGL DFIPGLHPIL SLSKMDQTLA VYQQVLTSLP SQNVLQIAND LENLRDLLHL LAFSKSCSLP QTSGLQKPES LDGVLEASLY STEVVALSRL QGSLQDILQQ LDVSPEC
Sequence Length	167
Solubility	It is recommended to reconstitute the lyophilized Leptin in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.201 as the extinctioncoefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of Leptin as a Reference Standard.
Biological Activity	Biological activity of Mouse Leptin is performed 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 5ug Leptin/gram body weight for a period of 14 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls.
Preparation and Storage	Lyophilized Leptin although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Leptin should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for Lep active protein	Description: Leptin Mouse Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16.2 kDa. The Leptin is purified by proprietary chromatographic techniques. 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.
Product Categories/Family for Lep active protein	Cytokines and Growth Factors; Growth Factors; Leptin

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678678
NCBI GeneID	16846
NCBI Accession #	NP_032519.1
NCBI GenBank Nucleotide #	NM_008493.3
UniProt Accession #	P41160
Molecular Weight	18,709 Da
NCBI Official Full Name	leptin
NCBI Official Synonym Full Names	leptin
NCBI Official Symbol	Lep
NCBI Official Synonym Symbols	ob; obese
NCBI Protein Information	leptin; obesity factor
UniProt Protein Name	Leptin
UniProt Gene Name	Lep
UniProt Synonym Gene Names	Ob
UniProt Entry Name	LEP_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/leptin/38172>