Recombinant Human LEP

Cat. No. LEP-225H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The AA sequence of recombinant Human Leptin is corresponding to the AA sequence of human serum leptin.
Species	Human
Source	E.coli
Description	LEP (Greek leptos meaning thin) is a 16 kDa protein hormone that plays a key role in regulating energy intake and energy expenditure, including appetite and metabolism. It is one of the most important adipose derived hormones. The Ob(Lep) gene (Ob for obese, Lep for leptin) is located on chromosome 7 in humans.
Form	Filtered (0, 4 μm) and lyophilized in 0.5 mg/mL in 10 mM sodium citrate, pH 4.0
Research topic	Energy metabolism and body weight regulation
Purity	>95%
Reconstitution	Add 0.1 M Acetate buffer pH 4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 μg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

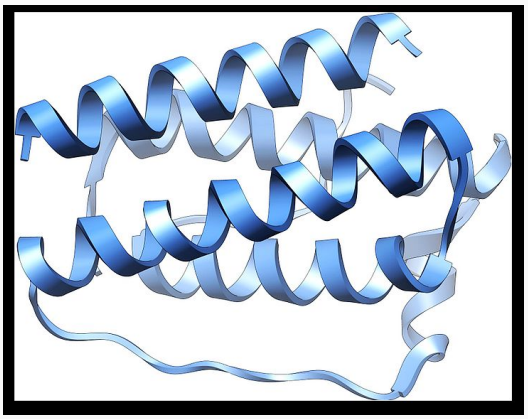
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Applications	ELISA; Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	VPIQKVQDDT KTLIKTIVTR INDISHTQSV SSKQKVTGLD FIPGLHPILT LSKMDQTLAV YQQILTSMPS RNVIQISNDL ENLRDLLHVL AFSKSCHLPW ASGLETLDSL GGVLEASGYS TEVVALSRLQ GSLQDMLWQL DLSPGC
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	LEP leptin [Homo sapiens]
Official Symbol	LEP
Synonyms	LEP; leptin; OB; OBS; FLJ94114; obese protein; obesity factor; OTTHUMP00000212285; obese, mouse, homolog of; leptin (murine obesity homolog); leptin (obesity homolog, mouse)
Gene ID	3952
mRNA Refseq	NM_000230
Protein Refseq	NP_000221

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MIM	164160
UniProt ID	P41159
Chromosome Location	7q31
Pathway	Adipocytokine signaling pathway; Adipogenesis; Cytokine-cytokine receptor interaction; Diabetes pathways; HIF-1-alpha transcription factor network; Incretin Synthesis; Integration of energy metabolism; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction; Regulation of Insulin Secretion; Signaling events mediated by PTP1B; Synthesis; Transcriptional Regulation of White Adipocyte Differentiation
Function	growth factor activity; hormone activity; peptide hormone receptor binding
Leptin	

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