

Recombinant Human LEP Protein, Myc/DDK-tagged

Cat. No. LEP-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human leptin (LEP) with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
Description	This gene encodes a protein that is secreted by white adipocytes into the circulation and plays a major role in the regulation of energy homeostasis. Circulating leptin binds to the leptin receptor in the brain, which activates downstream signaling pathways that inhibit feeding and promote energy expenditure. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis, reproduction, bone formation and wound healing. Mutations in this gene and its regulatory regions cause severe obesity and morbid obesity with hypogonadism in human patients. A mutation in this gene has also been linked to type 2 diabetes mellitus development.
Molecular Mass	16 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name LEP leptin [Homo sapiens (human)]

Official Symbol LEP

Synonyms LEP; leptin; OB; OBS; LEPD; leptin; leptin (murine obesity homolog); leptin (obesity homolog, mouse); obese protein; obese, mouse, homolog of; obesity factor

Gene ID 3952

mRNA Refseq NM_000230

Protein Refseq NP_000221

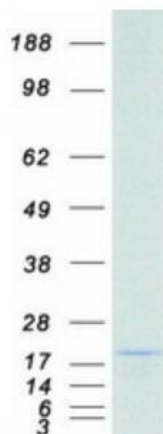
MIM 164160

UniProt ID P41159

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SDS-PAGE

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