

Native Human LEP

Cat. No. LEP-27641TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Leptin
Species	Human
Source	E.coli
Description	This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development.
Form	Lyophilised:Reconstitute in water to a concentration of 1.0-5.0 mg/ml.
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	Human Leptin is a 16 kDa protein containing 147 amino acid residues: MVPIQKVQDD TKTLIKTIVTRINDISHTQSVSSKQKVTGLDFIPGL HPILTL SKMDQTLAVYQQILTSMPSRNVIQISNDLEN LRDLLHVLAFSKSCHLPWASGLETLD SLGGVLEASGY STEVVAL SRLQGSLQDMLWQLDLSPGC

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Sequence Similarities Belongs to the leptin family.

GENE INFORMATION

Gene Name LEP leptin [Homo sapiens]

Official Symbol LEP

Synonyms LEP; leptin; leptin (murine obesity homolog) , leptin (obesity homolog, mouse) , OB, OBS;

Gene ID 3952

mRNA Refseq NM_000230

Protein Refseq NP_000221

Uniprot ID P41159

Chromosome Location 7q31

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;

Function growth factor activity; hormone activity; peptide hormone receptor binding;

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