Recombinant human Leptin/OB protein

Catalog Number: LEP3002

PRODUCT INFORMATION

Expression system
E.coli

Domain
22-167aa

UniProt No.
P41159

NCBI Accession No.
NP_000221

Alternative Names
LEP, OB, OBS, Leptin, Obesity factor, Obese protein, Leptin, Leptin Murine Obesity Homolog, Leptin Precursor Obesity Factor, Obesity, Obesity homolog mouse, Obesity Murine Homolog Leptin,

PRODUCT SPECIFICATION

Molecular Weight
16 kDa (147aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Human leptin is a 16-kDa nonglycosylated hormone that is produced in mature adipocytes. Leptin acts primarily in the hypothalamus to reduce food intake and body weight. In ob/ob mice, the gene encoding leptin is mutated, resulting in morbid obesity and associated abnormalities, including hyperphagia, hypothermia, diabetes and

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infertility. The function of leptin in regulating appetite and metabolism, as well as the possibility of using leptin as a therapeutic agent, are currently under intense investigation. Recombinant human leptin was overexpressed as insoluble protein aggregate in E. coli and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

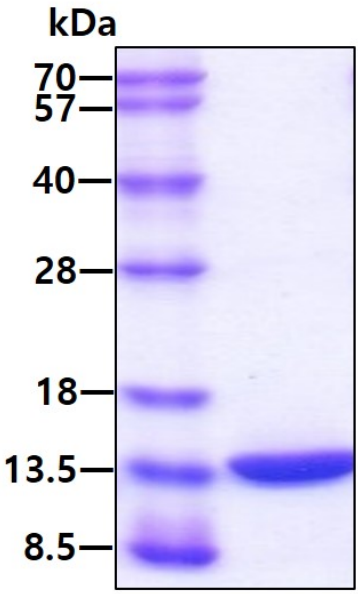
MVPIQKVQDD TKTLIKTIVT RINDISHTQS VSSKQKVTGL DFIPGLHPIL TLSKMDQTLA VYQQILTSMP SRNVIQISND LENLRDLLHV LAFSKSCHLP WASGLETLDS LGGVLEASGY STEVVALSRL QGSLQDMLWQ LDLSPGC

General References

Jeong KJ., et al. (1999) Appl Environ Microbiol. 65(7), 3027-32.
Anini Y., et al. (2003) Diabetes. 52(2), 252-259.
Hyogo H., et al. (2002) J. Biol. Chem. 277(37), 34117-34124.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.