

Recombinant mouse Leptin/OB protein

Catalog Number: LEP0701

PRODUCT INFORMATION

Expression system

E.coli

Domain

22-167aa

UniProt No.

P41160

NCBI Accession No.

NP_032519

Alternative Names

LEP, OB, OBS, Leptin Mouse, Obesity factor, Obese protein, 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

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

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 infertility. Originally discovered in the mouse, the cDNA for leptin has been so far cloned from a variety of species including human, rat, cow, chicken, pig, sheep and dog. Recombinant mouse leptin was overexpressed as insoluble protein aggregate in E. coli and purified by FPLC gel-filtration chromatography, after refolding of the

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isolated inclusion bodies in a renaturation buffer

Amino acid Sequence

MVPIQKVQDD TKTLIKTIIVT RINDISHTQS VSAKQRVTGL DFIPGLHPIL SLSKMDQTLA VYQQVLTSLP SQNVLQIAND
LENLRDLLHL LAFSKSCSLP QTSG LQKPES LDGVLEASLY STEVVALSRL QGSLQDILQQ LDVSPEC

General References

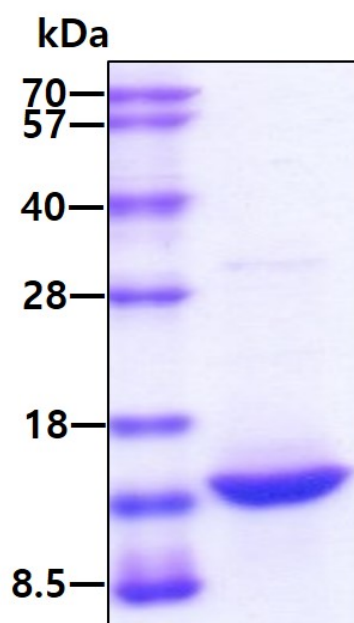
Jeong KJ., et al. (1999) Appl Environ Microbiol. 65(7), 3027-32.

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.