



[Go to Product page](#)

Datasheet for ABIN1047336

## Leptin Protein (LEP) (AA 29-164, partial) (GST tag)

1 Image

4 Publications

### Overview

Quantity:	50 µg
Target:	Leptin (LEP)
Protein Characteristics:	AA 29-164, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Leptin protein is labelled with GST tag.
Application:	ELISA

### Product Details

Sequence:	DDTKLIKI VTRINDISHT QSVSSKQKVT GLDFIPGLHP ILTLSKMDQT LAVYQQILTS MPSRNVIQIS NDLENLRDLL HVLAFSKSCH LPWASGLETL DSLGGVLEAS GYSTEVALS RLQGSLQDML WQLDLS
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

### Target Details

Target:	Leptin (LEP)
Alternative Name:	Leptin protein ( <a href="#">LEP Products</a> )
Background:	May function as part of a signaling pathway that acts to regulate the size of the body fat depot.

## Target Details

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An increase in the level of LEP may act directly or indirectly on the CNS to inhibit food intake and/or regulate energy expenditure as part of a homeostatic mechanism to maintain constancy of the adipose mass.

Molecular Weight: 42.4 kD

UniProt: [P41159](#)

Pathways: [JAK-STAT Signaling](#), [AMPK Signaling](#), [Hormone Transport](#), [Peptide Hormone Metabolism](#), [Hormone Activity](#), [Negative Regulation of Hormone Secretion](#), [Regulation of Carbohydrate Metabolic Process](#), [Feeding Behaviour](#), [Monocarboxylic Acid Catabolic Process](#)

## Application Details

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Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: Tris-based buffer, 50 % glycerol

Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

Storage: -20 °C

Storage Comment: Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

## Publications

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Product cited in:

Ota, Suzuki, Nishikawa, Otsuki, Sugiyama, Irie, Wakamatsu, Hayashi, Sato, Nagai, Kimura, Makita, Sekine, Obayashi, Nishi, Shibahara, Tanaka, Ishii, Yamamoto, Saito, Kawai, Isono, Nakamura, Nagahari et al.: "Complete sequencing and characterization of 21,243 full-length human cDNAs. ..." in: **Nature genetics**, Vol. 36, Issue 1, pp. 40-5, (2003) ([PubMed](#)).

Bell, Fong, Stempien, Wormsted, Caput, Ku, Urdea, Rall, Sanchez-Pescador: "Human epidermal growth factor precursor: cDNA sequence, expression in vitro and gene organization." in: **Nucleic acids research**, Vol. 14, Issue 21, pp. 8427-46, (1987) ([PubMed](#)).

## Images

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### SDS-PAGE

**Image 1.** Leptin (LEP) (AA 29-164), (partial) protein (GST tag)