Datasheet for ABIN1047336

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

1 Image | 4 Publications

Go to Product page

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:	DDTKTLIKTI VTRINDISHT QSVSSKQKVT GLDFIPGLHP ILTLSKMDQT LAVYQQILTS MPSRNVIQIS NDLENLRDLL HVLAFSKSCH LPWASGLETL DSLGGVLEAS GYSTEVVALS RLQGSLQDML WQLDLS
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien 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 (LEP Products)
Background:	May function as part of a signaling pathway that acts to regulate the size of the body fat depot.

Target Details

	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

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 modificated 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

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

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Publications

Product cited in:

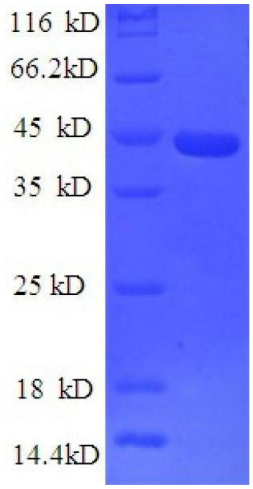
Schubring, Prohaska, Prohaska, Englaro, Blum, Siebler, Kratzsch, Kiess: "Leptin concentrations in maternal serum and amniotic fluid during the second trimenon: differential relation to fetal gender and maternal morphometry." in: **European journal of obstetrics, gynecology, and reproductive biology**, Vol. 86, Issue 2, pp. 151-7, (1999) (PubMed).

Gong, Bi, Pratley, Weintraub: "Genomic structure and promoter analysis of the human obese gene." in: **The Journal of biological chemistry**, Vol. 271, Issue 8, pp. 3971-4, (1996) (PubMed).

Masuzaki, Ogawa, Isse, Satoh, Okazaki, Shigemoto, Mori, Tamura, Hosoda, Yoshimasa: " Human obese gene expression. Adipocyte-specific expression and regional differences in the adipose tissue." in: **Diabetes**, Vol. 44, Issue 7, pp. 855-8, (1995) (PubMed).

Zhang, Proenca, Maffei, Barone, Leopold, Friedman: "Positional cloning of the mouse obese gene and its human homologue." in: **Nature**, Vol. 372, Issue 6505, pp. 425-32, (1994) (PubMed).

Images



SDS-PAGE

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