



Recombinant Human Leptin (LEP), partial

Product Code	CSB-RP067974h
Relevance	May function as part of a signaling pathway that acts to regulate the size of the body fat depot. 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.
Abbreviation	Recombinant Human LEP protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P41159
Alias	Obese proteinObesity factor
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DDTKTLIKTIVTRINDISHTQSVSSKQKVTGLDFIPGLHPILTLISKMDQTLAVYQQI LTSMPSRNVIQISNDLENLRDLLHVLAFAFSKSKCHLPWASGLETLDLGGVLEASG YSTEVALSRLQGSLQDMLWQLDLS
Research Area	Signal Transduction
Source	E.coli
Target Names	LEP
Expression Region	29-164aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	19.0kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

The recombinant Human LEP protein synthesis in e.coli cells necessitates the incorporation of a DNA fragment encoding the Human LEP protein (29-164aa) into a plasmid vector, followed by the transformation of this vector into e.coli cells. After screening for positive cells, they are cultured and induced to express the LEP protein. The protein carries a N-terminal 6xHis tag. Cell lysis is performed to gather the recombinant Human LEP protein, which undergoes affinity purification and is then analyzed using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the resulting recombinant Human LEP protein reaches up to 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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