Recombinant Horse LEP Protein, His-tagged

Cat. No. LEP-1086H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Horse LEP Protein (Val13-Ser145) with His tag was expressed in E. coli.
Species	Horse
Source	E.coli
ProteinLength	Val13-Ser145
Description	This gene encodes a protein that is secreted by white adipocytes into the circulation and plays a major role in the regulation of energy homeostasis. Circulating leptin binds to the leptin receptor in the brain, which activates downstream signaling pathways that inhibit feeding and promote energy expenditure. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis, reproduction, bone formation and wound healing. Mutations in this gene and its regulatory regions cause severe obesity and morbid obesity with hypogonadism in human patients. A mutation in this gene has also been linked to type 2 diabetes mellitus development.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.4 kDa; Accurate Molecular Mass: 18 kDa
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	LEP leptin [Equus caballus (horse)]
Official Symbol	LEP
Synonyms	LEP; leptin; obesity factor;
Gene ID	100034042
mRNA Refseq	NM_001163980
Protein Refseq	NP_001157452
UniProt ID	F7AZE4

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