PRODUCT INFORMATION

Target	LEP
Synonyms	OB; OBS; LEPD
Description	Recombinant human LEP Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P41159
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	LEP(Val22-Cys167) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 42.2 kDa after removal of the signal peptide. The apparent molecular mass of LEP-hFc is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).Lyophilized proteins are shipped at ambient temperature.
Background	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. [provided by RefSeq, Aug 2017]
Usage	Research use only
Conjugate	Unconjugated

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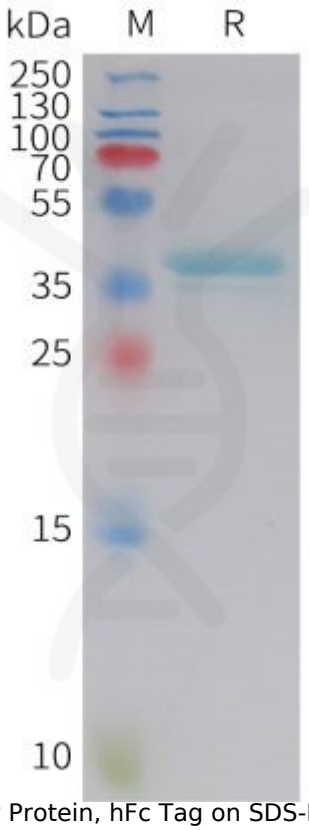


Figure 1. Human LEP Protein, hFc Tag on SDS-PAGE under reducing condition.

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