



[Go to Product page](#)

Datasheet for ABIN7538352

Leptin Protein (LEP) (AA 22-167) (Fc Tag)

1 Image

Overview

Quantity:	50 µg
Target:	Leptin (LEP)
Protein Characteristics:	AA 22-167
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Leptin protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human LEP Protein with C-terminal human Fc tag
Specificity:	LEP (Val22-Cys167) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Leptin (LEP)
Alternative Name:	LEP (LEP Products)
Background:	This gene encodes a protein that is secreted by white adipocytes into the circulation and plays

Target Details

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]

Molecular Weight: predicted molecular mass of 42.2 kDa after removal of the signal peptide. The apparent molecular mass of LEP-hFc is 35-55 kDa due to glycosylation.

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

Restrictions: For Research Use only

Handling

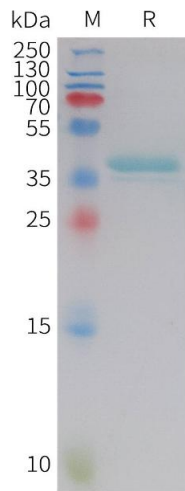
Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: 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.

Expiry Date: 12 months



SDS-PAGE

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