

# Recombinant Human LEP protein (hIgG2fc Tag)

Catalog Number: Eg0328

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE**Tag:**  
hIgG2fc Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human LEP protein Val22-Cys167 (Accession# P41159) with a hIgG2fc Tag at the N-terminus.

**GeneID:**

3952

**Accession:**

P41159

**Predicted Molecular Mass:**

43.1 kDa

**SDS-PAGE:****Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Leptin is a protein hormone predominantly produced by adipocytes, with key roles in regulating appetite, energy balance, and neuroendocrine function. It signals to the brain, particularly the hypothalamus, to control feeding behavior and energy expenditure. Leptin levels rise after eating, indicating high energy reserves and reducing appetite, while they drop during fasting, stimulating hunger. Additionally, Leptin influences immune function by modulating inflammatory cytokine production and contributing to metabolic homeostasis. Abnormalities in Leptin levels are associated with conditions such as obesity, malnutrition, cardiovascular events, and infertility.

## References

1. Obradovic, Milan et al. Frontiers in endocrinology vol. 12 585887. 18 May. 2021.

2. Pere

## Synonyms

leptin, OB, Obese protein, Obesity factor, OBS

## Selected Validation Data

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For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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