

For Research Use Only

Recombinant Human LEP protein (hIgG2fc Tag)

Catalog Number: Eg0328



Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
hIgG2fc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<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

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

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