

For Research Use Only

Recombinant Mouse Lepr protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2930

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse Lepr protein Leu22-Gly839 (Accession# P48356-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16847

Accession:
P48356-1

Predicted Molecular Mass:
118.2 kDa

SDS-PAGE:
120-180 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in 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

The hormone leptin, secreted predominantly from adipose tissue, plays a crucial role in the regulation of numerous neuroendocrine functions, from energy homeostasis to reproduction. Leptin acts through the leptin receptor (LEPR, also known as OB-R), a single-transmembrane-domain receptor of the cytokine receptor family. On ligand binding, LEPR mediates signaling through JAK2/STAT3. LEPR plays an important role in the regulation of glucose homeostasis via feeding and adiposity.

References

- 1.Cottrell EC. et al. (2012). Handb Exp Pharmacol. (209):3-21.
- 2.Tartaglia LA. (1997). J Biol Chem. 272(10):6093-6096.
- 3.Baskin DG. et al. (1999). J Histochem Cytochem. 47(3):353-362.

Synonyms

B219, CD295, Db, LEP-R, Leptin receptor

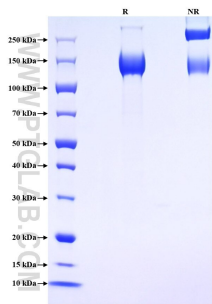
For technical support and original validation data for this product please contact

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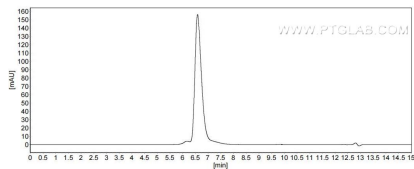
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Selected Validation Data



Purity of Recombinant Mouse Lepr was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse Lepr was greater than 90% as determined by SEC-HPLC.