For Research Use Only

Recombinant Human GHR protein (mFc Tag)

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Catalog Number: Eg3936

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-Human GHR protein Ala27-Tyr264 (Accession# P10912-1) with a mosue IgG Fc tag at the C-terminus.

GeneID:
2690

Accession:
P10912-1

Predicted Molecular Mass:
54.3 kDa

SDS-PAGE:
60-80 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

GH is a peptide hormone with many pleiotropic actions, including the regulation of metabolism, postnatal growth, cognition, immune, cardiac and renal systems and gut function. GH exerts these actions primarily through alterations in gene expression, initiated by activation of its membrane receptor GHR and the resultant activation of the associated JAK2 and Src family kinases. GH receptor (GHR) is a member of the cytokine receptor family. Mutations in GHR gene have been associated with Laron syndrome, also known as the GH insensitivity syndrome (GHIS), a disorder characterized by short stature.

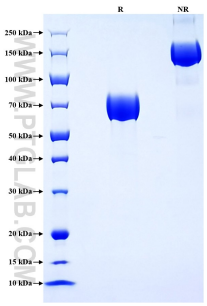
References

1. Panaro MA, Calvello R, et al. (2022) Methods Protoc. 5(4):53.
2. Erman A, Wabitsch M, et al. (2011) Int J Obes (Lond). 35(12):1520-9.
3. Glad CAM, Svensson PA, et al. (2019) J Clin Endocrinol Metab. 104(5):1459-1470.
4. Erman A, Veilleux A, et al. (2011) Int J Obes (Lond). 35(12):1511-9.
5. Stróżewska W, Durda-Masny M, et al. (2022) Genes (Basel). 13(5):856.

Synonyms

GH binding protein, GH receptor, GHBP, Growth hormone-binding protein, Serum binding protein

Selected Validation Data



Purity of Recombinant Human GHR 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.