

For Research Use Only

Recombinant Human IGF-II R/IGF2R protein (rFc Tag)



Catalog Number: Eg3488

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human IGF-II R protein Gln41-Asp1365 (Accession# P11717) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

3482

Accession:

P11717

Predicted Molecular Mass:

172.5 kDa

SDS-PAGE:

140-230 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m 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

IGF-II R (insulin-like growth factor 2 receptor), also known as IGF2R or M6P/IGF2R, is a multifunctional type I transmembrane glycoprotein. Its primary function is to act as a "scavenger receptor," binding and internalizing ligands such as insulin-like growth factor-II (IGF-II) and lysosomal enzymes marked with mannose-6-phosphate, thereby mediating their lysosomal degradation and negatively regulating cell growth, proliferation, and metabolism. This receptor plays a crucial role in embryonic development, tumor suppression, and metabolic homeostasis. Unlike IGF1R, its cytoplasmic tail is short and lacks tyrosine kinase activity. It primarily inhibits pro-growth signals by clearing circulating IGF-II through an endocytosis-degradation pathway, functioning as a tumor-suppressive "scavenger." As a classic tumor suppressor, its gene deletion or functional inactivation is commonly observed in various cancers, leading to abnormal activation of pro-growth signaling pathways.

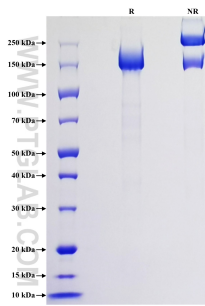
References

1. Shirakawa, Jun et al. Diabetes vol. 74,12 (2025): 2351-2364.
2. Bella, Pamela et al. EMBO molecular medicine vol. 12,1 (2020): e11019.
3. Guo, Xiaorong et al. International journal of biological macromolecules vol. 284,Pt 1 (2025): 137785.
4. Han, Jie et al. Autophagy vol. 17,6 (2021): 1393-1409.

Synonyms

IGF2R, 300 kDa mannose 6-phosphate receptor, Cation-independent mannose-6-phosphate receptor, CD222, CI Man 6 P receptor

Selected Validation Data



Purity of Recombinant Human IGF-II R 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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.