

Recombinant Human Insulin Receptor/INSR/CD220 Protein

Catalog No.: RP01146 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3643	P06213

Tags

C-His

Synonyms

CD220;HHF5;INSR; CD220; HHF5; insulin receptor

Product Information

Source	Purification
HEK293 cells	> 95 % by SDS-PAGE.

Calculated MW	Observed MW
83 kDa(α chain), 24 kDa(ECD of β subunit)	10-125 kDa(α chain) & 40-45(ECD of β subunit)

Endotoxin

< 1.0 EU/ μ g of the protein by LAL method.


Formulation

Lyophilized from a 0.22 μ m filtered solution PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a member of the receptor tyrosine kinase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form a heterotetrameric receptor. Binding of insulin or other ligands to this receptor activates the insulin signaling pathway, which regulates glucose uptake and release, as well as the synthesis and storage of carbohydrates, lipids and protein. Mutations in this gene underlie the inherited severe insulin resistance syndromes including type A insulin resistance syndrome, Donohue syndrome and Rabson-Mendenhall syndrome. Alternative splicing results in multiple transcript variants.

Basic Information

Description

Recombinant Human Insulin Receptor/INSR/CD220 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys956) of human Insulin Receptor (Accession #NP_000199.2) fused with a 6xHis tag at the C-terminus.

Bio-Activity

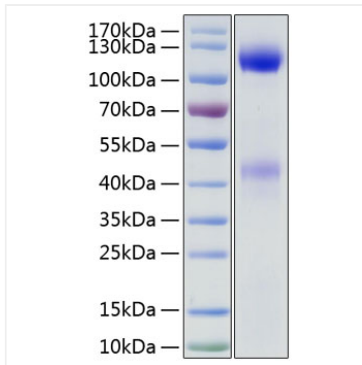
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.



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Validation Data



Recombinant Human Insulin Receptor/INSR/CD220 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 125-135 kDa & 40-45 kDa.