

Recombinant Human Insulin Receptor/INSR/CD220 Protein

Catalog No.: RP01990 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3643 P06213

Tags C-Avi&His

Synonyms

INSR;Insulin receptor; IR; EC:2.7.10.1; CD220; Cleaved into: Insulin receptor subunit alpha; Insulin receptor subunit beta

Product Information

Source Purification CHO Cells ≥ 95 % as

determined by

Calculated MW Observed MW

107 kDa 110-125 kDa,40-45

kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

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 stablizer (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 CHO Cells expression system. The target protein is expressed with sequence (His28-Val944) of Human Insulin Receptor/INSR/CD220(Accession #NP_000199.2) fused with Avi and His tag at the C-terminus.

Bio-Activity

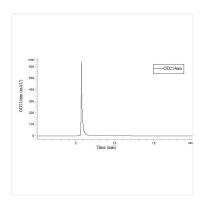
Storage

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.

Validation Data



Recombinant Human Insulin Receptor/INSR/CD220 Protein is greater than 95% as determined by SEC-HPLC.