

# Human Insulin Receptor/CD220 (long isoform, His Tag) recombinant protein



Catalog Number: 504169

## General Information

### Gene Name Synonym

Insulin receptor subunit alpha; Insulin receptor subunit beta

### Protein Construction

A DNA sequence encoding the human INSR isoform long (NP\_000199.2) extracellular domain (Met 1-Lys 956) was expressed, fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA. When 1 µg/ml of biotinylated human insulin is immobilized onto a streptavidin coated plate, it can bind human INSR (isoform long) with a linear range of 0.625-10 µg/ml.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

His 28 & Ser 763

## Molecular Mass

The secreted recombinant human INSR isoform long consists of 940 amino acids and has a predicted molecular mass of 107 (83+24) kDa. As a result of glycosylation, the apparent molecular mass of rhINSR is approximately 125-135 kDa & 40-45 kDa, corresponding to the  $\alpha$  subunit and the ECD of  $\beta$  subunit respectively in SDS-PAGE under reducing conditions.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

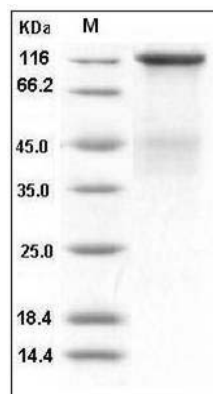
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Insulin Receptor / INSR / CD220 Protein (long isoform, His Tag) SDS-PAGE