

# Human IGF1R/CD221 (His Tag) recombinant protein



Catalog Number: 503131

## General Information

### Gene Name Synonym

Insulin-like growth factor I receptor; Insulin-like growth factor 1 receptor alpha chain; Insulin-like growth factor 1 receptor beta chain

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Asn 932) of human IGF1 Receptor (NP\_000866.1) precursor was expressed with a C-terminal polyhistidine tag.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to bind biotinylated human IGF1 in a functional ELISA.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Glu 31

### Molecular Mass

The calculated molecular masses for  $\alpha$  subunit,  $\beta$  subunit and the single chain of the receptor are approximately 81 kDa, 23 kDa and 104 kDa, respectively. As a result of glycosylation, the recombinant single chain,  $\alpha$  subunit and  $\beta$  subunit have apparent molecular masses of approximately 150 kDa, 120 kDa and 48 kDa, respectively in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS Buffer, 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

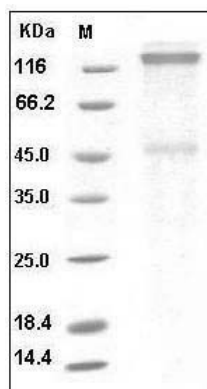
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . 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 IGF1R / CD221 Protein (His Tag) SDS-PAGE