

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



Catalog Number: 503722

General Information

Gene Name Synonym

Insulin receptor subunit alpha; Insulin receptor subunit beta

Protein Construction

A DNA sequence encoding the human INSR isoform short (NP_001073285.1) extracellular domain (Met 1-Lys 944) 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 insulin receptor with a linear range of 0.3-40 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 751

Molecular Mass

The secreted recombinant human INSR isoform short consists of 928 amino acids and has a predicted molecular mass of 106 (83+23) kDa. As a result of glycosylation, the apparent molecular mass of rhINSR is approximately 125-135 kDa & 40-45 kDa, corresponding to the α subunit and the ECD of β 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

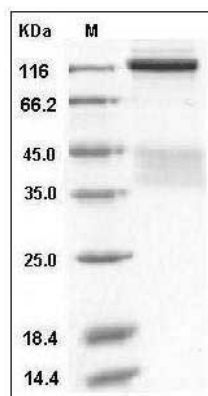
Storage

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 (short isoform, His Tag) SDS-PAGE