

HUMAN IGF-1R PROTEIN, HIS TAG

Cat.#: 11598

Product Name: Human IGF-1R Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CD221;IGFIR;IGFR;JTK13

Target: IGF-1R

UNIPROT ID: P08069

Description: Recombinant human IGF-1R protein with C-terminal 6xHis tag

Background: This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 103.7 kDa after removal of the signal peptide. The apparent molecular mass of IGF-1R-His is approximately 130-150 kDa due to glycosylation.

Molecular Characterization: IGF-1R(Glu31-Asn932) 6xHis tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

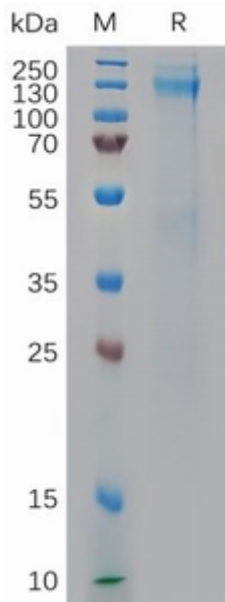


Figure 1. Human IGF-1R Protein, His Tag on SDS-PAGE under reducing condition.