

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.

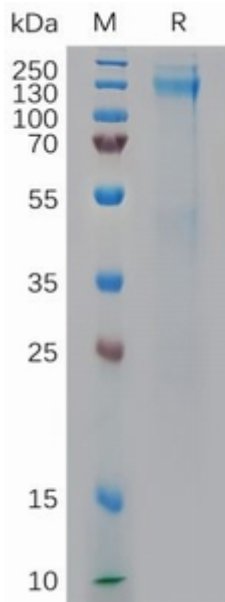


Figure 1. Human IGF-1R Protein, His Tag on SDS-PAGE under reducing condition.