

MOUSE IGF-1R PROTEIN, HIS TAG**Cat.#:** 12223**Product Name:** Mouse IGF-1R Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** hyft;CD221;IGF1R**Target:** IGF-1R**UNIPROT ID:** Q60751**Description:** Recombinant mouse IGF-1R protein with C-terminal 6xHis tag

Background: Enables insulin-like growth factor binding activity. Involved in several processes, including adrenal gland development; positive regulation of cold-induced thermogenesis; and positive regulation of meiotic cell cycle. Acts upstream of or within several processes, including gland development; peptidyl-tyrosine autophosphorylation; and regulation of intracellular signal transduction. Located in T-tubule. Is integral component of membrane. Is expressed in several structures, including alimentary system; brain; genitourinary system; limb; and lung. Human ortholog(s) of this gene implicated in several diseases, including dementia (multiple); kidney cancer (multiple); liver disease (multiple); nervous system cancer (multiple); and neurodegenerative disease (multiple). Orthologous to human IGF1R (insulin like growth factor 1 receptor). [provided by Alliance of Genome Resources, Apr 2022]

Species/Host: HEK293**Molecular Weight:** The protein has a predicted molecular mass of 104.5 kDa after removal of the signal peptide.**Molecular Characterization:** Mouse IGF-1R(Glu31-His936) 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. Mouse IGF-1R Protein, His Tag on SDS-PAGE under reducing condition.