

HUMAN RET PROTEIN, HIS TAG**Cat.#:** 11525**Product Name:** Human RET Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Proto-oncogene tyrosine-protein kinase receptor Ret; adherin family member 12; roto-oncogene c-Ret**Target:** RET**UNIPROT ID:** P07949**Description:** Recombinant human RET protein with C-terminal 6xHis tag**Background:** This gene encodes a transmembrane receptor and member of the tyrosine protein kinase family of proteins. Binding of ligands such as GDNF (glial cell-line derived neurotrophic factor) and other related proteins to the encoded receptor stimulates receptor dimerization and activation of downstream signaling pathways that play a role in cell differentiation, growth, migration and survival. The encoded receptor is important in development of the nervous system, and the development of organs and tissues derived from the neural crest. This proto-oncogene can undergo oncogenic activation through both cytogenetic rearrangement and activating point mutations. Mutations in this gene are associated with Hirschsprung disease and central hypoventilation syndrome and have been identified in patients with renal agenesis. [provided by RefSeq, Sep 2017]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 68.6 kDa after removal of the signal peptide. The apparent molecular mass of RET-His is approximately 100–130 kDa due to glycosylation.**Molecular Characterization:** RET(Leu29–Arg635) 6×His 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 RET Protein, His Tag on SDS-PAGE under reducing condition.