

**HUMAN MERTK PROTEIN, HFC TAG****Cat.#:** 11702**Product Name:** Human MERTK Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Tyrosine-protein kinase Mer;Proto-oncogene c-Mer;Receptor tyrosine kinase MerTK**Target:** MERTK**UNIPROT ID:** Q12866**Description:** Recombinant human MERTK protein with C-terminal human Fc tag**Background:** This gene is a member of the MER/AXL/TYRO3 receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one tyrosine kinase domain. Mutations in this gene have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP). [provided by RefSeq, Jul 2008]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 78.8 kDa after removal of the signal peptide. The apparent molecular mass of MERTK-hFc is approximately 100-130 kDa due to glycosylation.**Molecular Characterization:** MERTK(Ala21-Ile505) hFc(Glu99-Ala330)**Purity:** The purity of the protein is greater than 95% 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.

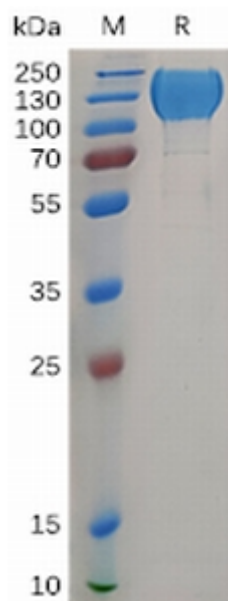


Figure 1. Human MERTK Protein, hFc Tag on SDS-PAGE under reducing condition.