

HUMAN TGFR2 PROTEIN, HFC TAG**Cat.#:** 11719**Product Name:** Human TGFR2 Protein**Size :** 10 µg, 50 µg and 100 µg**Synonyms:** AAT3;FAA3;LDS1B;LDS2;LDS2B;MFS2;RIIC;TAAD2;TBR-ii;TBR11;TGFBeta-R11;TGFR-2**Target:** TGFR2**UNIPROT ID:** P37173**Description:** Recombinant human TGFR2 protein with C-terminal human Fc tag**Background:** The protein encoded by this gene is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with TGF-beta receptor type-1, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of genes related to cell proliferation, cell cycle arrest, wound healing, immunosuppression, and tumorigenesis. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq, Aug 2017]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 41.6 kDa after removal of the signal peptide. The apparent molecular mass of TGFR2-hFc is approximately 55-70 kDa due to glycosylation.**Molecular Characterization:** TGFR2(Thr23-Asp159) 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 TGFBR2 Protein, hFc Tag on SDS-PAGE under reducing condition.