

## HUMAN TGFBR1 PROTEIN, N-HFC TAG

**Cat.#:** 11221

**Product Name:** Human TGFBR1 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** AAT5;ACVRLK4;ALK-5;ALK5;ESS1;LDS1;LDS1A;LDS2A;MSSE;SKR4;tbetaR-I;TBR-i;TBRI;TGFR-I

**Target:** TGFBR1

**UNIPROT ID:** P36897

**Description:** Recombinant human TGFBR1 Protein with N-terminal Human Fc tag

**Background:** The protein encoded by this gene forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 36.3 kDa after removal of the signal peptide. The apparent molecular mass of hFc-TGFBR1 is approximately 40-53 kDa due to glycosylation.

**Molecular Characterization:** hFc(Glu99-Ala330) TGFBR1(Leu34-Leu126)

**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.

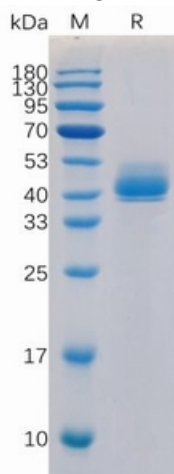


Figure 1. Human TGFBR1 Protein, N-hFc Tag on SDS-PAGE under reducing condition.