

HUMAN TGFBR1 PROTEIN, HFC TAG

Cat.#: 11565

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-1

Target: TGFBR1

UNIPROT ID: P36897

Description: Recombinant human TGFBR1 protein with C-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 TGFBR1-hFc is approximately 35-40 kDa due to glycosylation.

Molecular Characterization: TGFBR1(Leu34-Leu126) 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.

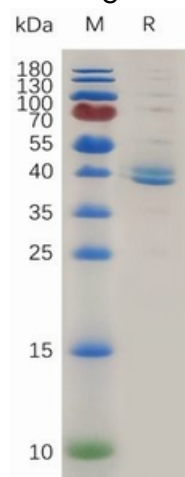


Figure 1. Human TGFBR1 Protein, hFc Tag on SDS-PAGE under reducing condition.