

**PRODUCT INFORMATION**

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| <b>Target</b>                           | TGFBR1   |
| <b>Synonyms</b>                         | AAT5;ACVRLK4;ALK-5;ALK5;ESS1;LDS1;LDS1A;LDS2A;MSSE;SKR4;tbetaR-I;TBR-i;TBRI;TGFR-1   |
| <b>Description</b>                      | Recombinant human TGFBR1 Protein with N-terminal Human Fc tag  |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | P36897   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Tag</b>                              | N-Human Fc Tag   |
| <b>Molecular Characterization</b>       | hFc(Glu99-Ala330) TGFBR1(Leu34-Leu126)   |
| <b>Molecular Weight</b>                 | 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.   |
| <b>Purity</b>                           | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.   |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.  |
| <b>Storage &amp; Shipping</b>           | 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.  |
| <b>Background</b>                       | 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. |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Unconjugated   |



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

