

HUMAN TGFB3 PROTEIN, HFC TAG**Cat.#:** 11718**Product Name:** Human TGFB3 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** ARVD;ARVD1;LDS5;RNHF;TGF-beta3**Target:** TGFB3**UNIPROT ID:** P10600**Description:** Recombinant human TGFB3 protein with C-terminal human Fc tag

Background: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in this gene are a cause of aortic aneurysms and dissections, as well as familial arrhythmogenic right ventricular dysplasia 1. [provided by RefSeq, Aug 2016]

Species/Host: HEK293**Molecular Weight:** The protein has a predicted molecular mass of 56 kDa after removal of the signal peptide.**Molecular Characterization:** TGFB3 (Leu24-Arg300) 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.

