

**HUMAN CD3D PROTEIN, HIS TAG****Cat.#:** 11586**Product Name:** Human CD3D Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** T-cell surface glycoprotein CD3 delta chain;-cell receptor T3 delta chain**Target:** CD3D**UNIPROT ID:** P04234**Description:** Recombinant human CD3D protein with C-terminal 6xHis tag**Background:** The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length natures of their transcripts has yet to be defined. [provided by RefSeq, Feb 2009]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 10.4 kDa after removal of the signal peptide. The apparent molecular mass of CD3D-His is approximately 15-25 kDa due to glycosylation.**Molecular Characterization:** CD3D(Phe22-Ala105) 6xHis tag**Purity:** The purity of the protein is greater than 85% 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.

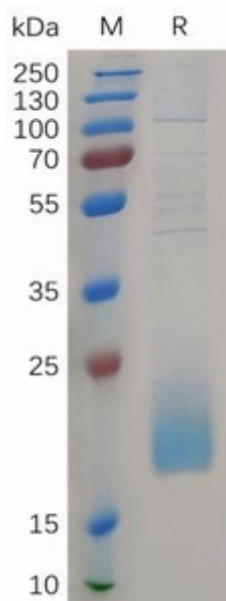


Figure 1. Human CD3D Protein, His Tag on SDS-PAGE under reducing condition.