

HUMAN CD3E PROTEIN, HFC TAG**Cat.#:** 11609**Product Name:** Human CD3E Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CD3e;T3E**Target:** CD3E**UNIPROT ID:** P07766**Description:** Recombinant human CD3E protein with C-terminal human Fc tag**Background:** The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women. [provided by RefSeq, Jul 2008]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 37.9 kDa after removal of the signal peptide. The apparent molecular mass of CD3E-hFc is approximately 35-55 kDa due to glycosylation.**Molecular Characterization:** CD3E(Asp23-Asp126) 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 CD3E Protein, hFc Tag on SDS-PAGE under reducing condition.