

# Active Recombinant Human CD3E & CD3D protein, Fc-His & Fc-Flag-tagged

**Cat. No.** CD3E & CD3D-2961H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Human CD3E&CD3D protein(Asp 23-Asp 126 (CD3E) & Phe 22-Ala 105 (CD3D)), fused with Fc-His and Fc-Flag tag, was expressed in HEK293.

### Species

Human

### Source

HEK293

### ProteinLength

Asp 23-Asp 126 (CD3E) & Phe 22-Ala 105 (CD3D)

### Form

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

### Bio-activity

Immobilized Human CD3E&CD3D Heterodimer Protein at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade with a linear range of 0.2-3 ng/mL. Immobilized Human CD3E&CD3D Heterodimer Protein at 1 µg/mL (100 µL/well) can bind UCHT1 with a linear range of 0.1-3 ng/mL. Immobilized Human CD3E&CD3D Heterodimer Protein at 1 µg/mL (100 µL/well) can bind SP34-2 with a linear range of 0.4-3 ng/mL.

### Molecular Mass

Human CD3E&CD3D Heterodimer Protein is produced by co-expression of CD3E and CD3D, has a calculated MW of 40.2 kDa (CD3E) and 37.3 kDa (CD3D). Subunit CD3E is fused with a human IgG1 Fc tag and a polyhistidine tag at the C-terminus and subunit CD3D is fused with a human IgG1 Fc tag and a flag tag at the C-terminus. As a result of glycosylation, the heterodimer protein migrates as 45-60 kDa

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	under reducing (R) condition, and 100-116 kDa under non-reducing (NR) condition (SDS-PAGE).
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	CD3E CD3e molecule, epsilon (CD3-TCR complex) [ Homo sapiens ]
<b>Official Symbol</b>	CD3E
<b>Synonyms</b>	CD3E; CD3e molecule, epsilon (CD3-TCR complex); CD3e antigen, epsilon polypeptide (TiT3 complex); T-cell surface glycoprotein CD3 epsilon chain; CD3-epsilon; T-cell surface antigen T3/Leu-4 epsilon chain; T-cell antigen receptor complex, epsilon subunit of T3; T3E; TCRE; FLJ18683;
<b>Gene ID</b>	916
<b>mRNA Refseq</b>	NM_000733
<b>Protein Refseq</b>	NP_000724

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