

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Asp 23-Asp 126 (CD3E) & Phe 22-Ala 105 (CD3D)                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | 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. |
| <b>Molecular Mass</b>   | 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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UniProt ID

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