

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

**Cat. No.** CD3E & CD3D-2967H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Biotinylated Recombinant Human CD3E&CD3D protein(Asp 23-Asp 126 (CD3E) & Phe 22-Ala 105 (CD3D)), fused with Fc-His-Avi and Fc-Flag-Avi 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. Normally trehalose is added as protectant before lyophilization.   |
| <b>Bio-activity</b>     | Immobilized Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His,Avitag&Fc,Flag,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3) with a linear range of 0.4-3 ng/mL.Immobilized Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His,Avitag&Fc,Flag,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind UCHT1 with a linear range of 0.1-2 ng/mL. |
| <b>Molecular Mass</b>   | Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His,Avitag&Fc,Flag,Avitag is produced by co-expression of CD3E and CD3D, has a calculated MW of 45.1 kDa  |

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(CD3E) & 42.6 kDa (CD3D). Subunit CD3E is fused with a human IgG1 Fc fragment at the C-terminus, followed by an Avi tag (Avitag™), the polyhistidine tag is inserted in-between the Fc and Avi tags at the C-terminus and subunit CD3D contains a human IgG1 Fc fragment at the C-terminus, followed by an Avi tag (Avitag™), the flag tag is inserted in-between the Fc and Avi tags at the C-terminus. As a result of glycosylation, the heterodimer protein migrates as 50-60 kDa under reducing (R) condition.

**Endotoxin** Less than 1.0 EU per µg by the LAL method.

**Purity** >90% as determined by SDS-PAGE.>90% as determined by SEC-MALS.

**Storage** 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.

**Reconstitution** 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.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** CD3E CD3e molecule, epsilon (CD3-TCR complex) [ Homo sapiens ]

**Official Symbol** CD3E

**Synonyms** 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

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complex, epsilon subunit of T3; T3E; TCRE; FLJ18683;

**Gene ID** [916](#)

**mRNA Refseq** [NM\\_000733](#)

**Protein Refseq** [NP\\_000724](#)

**UniProt ID** [P07766](#)

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