

## Active Recombinant Mouse CD3E & CD3G protein, His-Avi&Flag-tagged, Biotinylated

**Cat. No.** CD3E & CD3G-3036M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Biotinylated Recombinant Mouse CD3E&CD3G protein(Asp 23-Asp 108 (CD3E) & Gln 23-Ser 116 (CD3G)), fused with His-Avi and Flag tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Asp 23-Asp 108 (CD3E) & Gln 23-Ser 116 (CD3G)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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 CD3E Monoclonal Antibody (145-2C11) at 1 µg/mL (100 µL/well) can bind Biotinylated Mouse CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag with a linear range of 5-78 ng/mL.                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | Biotinylated Mouse CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag is produced by co-expression of CD3E and CD3G, has a calculated MW of 16.8 kDa (CD3E) and 15.2 kDa (CD3G). Subunit CD3E carries a polyhistidine tag at the C-terminus, followed by an Avi tag and subunit CD3G is fused with a flag tag at the C-terminus. As a result of glycosylation, the protein migrates as 20-23 kDa under reducing (R) condition, and 35-40 kDa under non-reducing (NR) condition (SDS-PAGE). |

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|                       |                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                          |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.>90% as determined by SEC-MALS.                                                                                                                                                                                                                                      |
| <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.                                                                                                                       |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cd3e CD3 antigen, epsilon polypeptide [ <i>Mus musculus</i> ]                                                                                                         |
| <b>Official Symbol</b> | CD3E                                                                                                                                                                  |
| <b>Synonyms</b>        | CD3E; CD3 antigen, epsilon polypeptide; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3; T3e; AI504783; CD3epsilon; |
| <b>Gene ID</b>         | 12501                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_007648                                                                                                                                                             |
| <b>Protein Refseq</b>  | NP_031674                                                                                                                                                             |

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