

# Recombinant Mouse CD3D & CD3E Protein, His-Fc & Flag-Fc-tagged

**Cat. No.** CD3D & CD3E-1246M    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant extracellular domain (Met 1-Ala 105) of mouse CD3D (P04235) was fused with the C-terminal flag-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; Recombinant extracellular domain (Met 1-Asp 108) of mouse CD3E (P22646)                                      |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                                                                |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>        | 1-105;1-108 a.a.                                                                                                                                                                                                                                                                                     |
| <b>Predicted N Terminal</b> | Phe 22 & Asp 22                                                                                                                                                                                                                                                                                      |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>       | The recombinant heterodimer of mouse CD3D/CD3E comprises 670 (333+337) amino acids and has a calculated molecular mass of 76 (38+38) kDa. As a result of glycosylation, the apparent molecular mass of mouse CD3D/CD3E heterodimer is approximately 45-50 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                      |
| <b>Purity</b>               | >90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                     |

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|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cd3d CD3 antigen, delta polypeptide [ <i>Mus musculus</i> ]                                                                                                                                                                                                     |
| <b>Official Symbol</b> | CD3D                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | CD3D; CD3 antigen, delta polypeptide; T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain; T3d;                                                                                                                                         |
| <b>Gene ID</b>         | 12500                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_013487                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_038515                                                                                                                                                                                                                                                       |
| <b>MIM</b>             |                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      |                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>         | Adaptive Immune System, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Dow |

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**Function**

protein binding; protein heterodimerization activity; receptor activity; transmembrane signaling receptor activity;

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