

**Synonym**

CD3E &amp; CD3D,CD3 delta &amp; CD3 epsilon

**Source**

Mouse CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag(CDD-M52W2) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 108 (CD3E) & Phe 22 - Ala 105 (CD3D) (Accession # [P22646-1](#) (CD3E) & [P04235-1](#) (CD3D)).

Predicted N-terminus: Asp 23 (CD3E) &amp; Phe 22 (CD3D)

**Molecular Characterization**

CD3E (Asp 23 - Asp 108 ) P22646-1	Fc(Pro 100 - Lys 330) P01857	Poly-his
CD3D (Phe 22 - Ala 105) P04235-1	Fc(Pro 100 - Lys 330) P01857	Flag

Mouse CD3E&CD3D Heterodimer Protein, Fc, His Tag&Fc, Flag Tag is produced by co-expression of CD3E and CD3D, has a calculated MW of 41.5 kDa (CD3E) and 40.7 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 55-65 kDa under reducing (R) condition, and 90-116 kDa under non-reducing (NR) condition (SDS-PAGE).

**Endotoxin**Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

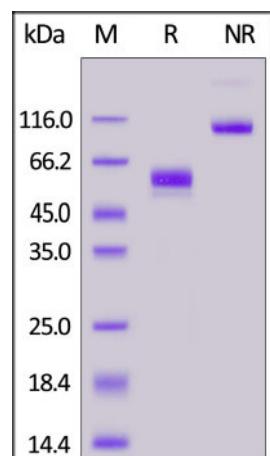
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

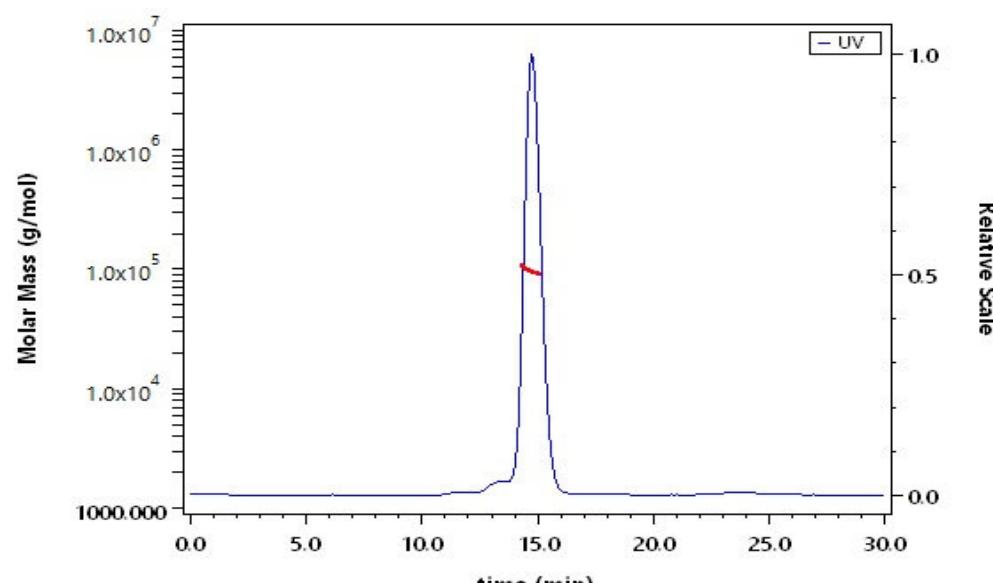
*Please avoid repeated freeze-thaw cycles.*

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.

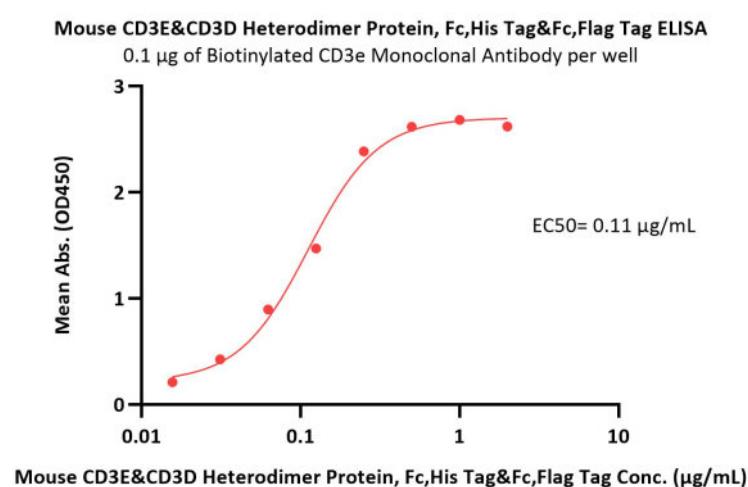
**SDS-PAGE**

Mouse CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**SEC-MALS**

The purity of Mouse CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag (Cat. No. CDD-M52W2) is more than 95% and the molecular weight of this protein is around 95-110 kDa verified by SEC-MALS.

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Immobilized Biotinylated CD3e Monoclonal Antibody at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) (0.5 µg/well) plate, can bind Mouse CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag (Cat. No. CDD-M52W2) with a linear range of 0.016-0.25 µg/mL (QC tested).

## Background

T-cell surface glycoprotein CD3 delta & CD3 epsilon chain, also known as CD3D & CD3E or CD3D&CD3E respectively, are single-pass type I membrane proteins. CD3D, together with CD3- epsilon(CD3E) , CD3-gamma and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

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