

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

Cat. No. CD3E & CD3D-2966M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD3E&CD3D protein(Asp 23-Asp 108 (CD3E) & Phe 22-Ala 105 (CD3D)), fused with Fc-His and Fc-Flag tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Asp 23-Asp 108 (CD3E) & Phe 22-Ala 105 (CD3D)
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100mM Glycine, 25mM Arginine, 150mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Biotinylated CD3e Monoclonal Antibody at 1 µg/mL (100 µL/well) on streptavidin (0.5 µg/well) plate, can bind Mouse CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag with a linear range of 0.016-0.25 µg/mL.
Molecular Mass	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

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	non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cd3e CD3 antigen, epsilon polypeptide [Mus musculus]
Official Symbol	CD3E
Synonyms	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;
Gene ID	12501
mRNA Refseq	NM_007648
Protein Refseq	NP_031674

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