Recombinant Cynomolgus CD3E & CD3D protein, Fc-His-tagged & Fc-Flag-tagged, Biotinylated

Cat. No. CD3E & CD3D-515CB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Asp 117 (CD3E) & Phe 22 - Ala 105 (CD3D) (Accession # Q95LI5-1(CD3E) & Q95LI8-1(CD3D)).
Species	Cynomolgus
Source	HEK293
ProteinLength	Gln 22 - Asp 117 (CD3E) & Phe 22 - Ala 105 (CD3D)
Description	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.
Predicted N Terminal	Gln 22 (CD3E) & Phe 22 (CD3D)
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Molecular Mass	Cynomolgus CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag is produced by co-expression of CD3E and CD3D, has a calculated MW of 42.5 kDa (CD3E) and

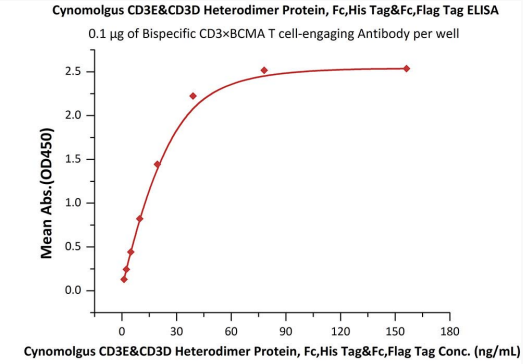
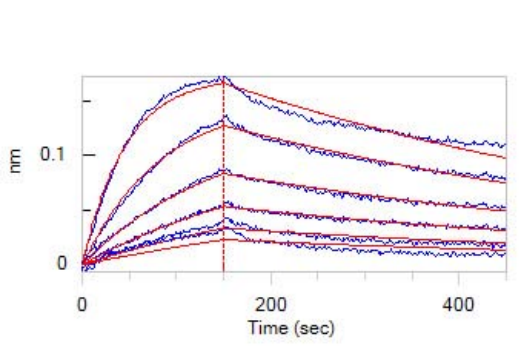
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	40.9 kDa (CD3D). Subunit CD3E is fused with a human IgG1 Fc tag and a polyhistidine tag at the C-terminus and subunit CD3D is fused with a human IgG1 Fc tag and a flag tag at the C-terminus. The predicted N-terminus is Gln 22 (CD3E) & Phe 22 (CD3D). The reducing (R) protein migrates as 46-50 kDa and 55-65 kDa due to glycosylation.
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 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Conjugation	Biotin

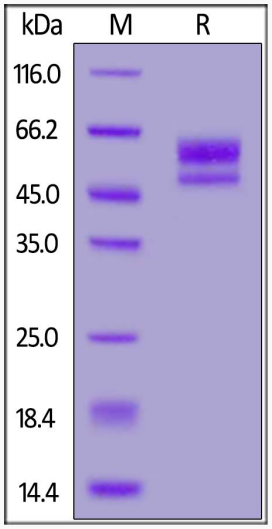
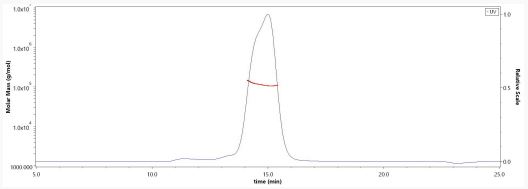
GENE INFORMATION

Gene Name	Cd3e CD3 antigen, epsilon polypeptide [Mus musculus (house mouse)]
Official Symbol	CD3E; CD3D
Synonyms	CD3E & CD3D; CD3 delta & CD3 epsilon; CD3 delta / epsilon

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Gene ID	12501
mRNA Refseq	NM_007648.5
Protein Refseq	NP_031674.1
UniProt ID	P22646
Bioactivity-ELISA of CD3E & CD3D-515CB	
Bioactivity-BLI of CD3E & CD3D-515CB	

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SDS-PAGE of CD3E & CD3D-515CB	
SEC-MALS of CD3E & CD3D-515CB	

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