

Recombinant Human CD3E & CD3D Protein, Fc-His-Avi & Fc-Flag-Avi-tagged, Biotinylated

Cat. No. CD3E & CD3D-567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His,Avitag&Fc,Flag,Avitag is expressed from human HEK293 cells. It contains AA Asp 23 - Asp 126 (CD3E) & Phe 22 - Ala 105 (CD3D) (Accession # P07766-1(CD3E) & P04234-1(CD3D)). It is the biotinylated form of Human CD3 epsilon & CD3 delta Protein.
Species	Human
Source	HEK293
ProteinLength	Asp 23 - Asp 126 (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	Asp 23 (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	Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His,Avitag&Fc,Flag,Avitag

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

is produced by co-expression of CD3E and CD3D, has a calculated MW of 45.1kDa (CD3E) & 42.6 kDa (CD3D). Subunit CD3E is fused with a human IgG1 Fc fragment at the C-terminus, followed by an Avi tag, the polyhistidine tag is inserted in-between the Fc and Avi tags at the C-terminus and subunit CD3D contains a human IgG1 Fc fragment at the C-terminus, followed by an Avi tag, the flag tag is inserted in-between the Fc and Avi tags at the C-terminus. As a result of glycosylation, the heterodimer protein migrates as 50-60 kDa under reducing (R) condition.

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°C before opening to recover the entire contents.

Conjugation Biotin

GENE INFORMATION

Gene Name CD3E CD3e molecule, epsilon (CD3-TCR complex) [Homo sapiens]

Official Symbol CD3E & CD3D

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms CD3E; CD3D

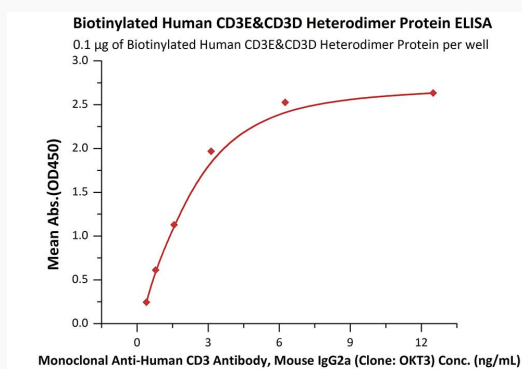
Gene ID 916

mRNA Refseq NM_000733

Protein Refseq NP_000724

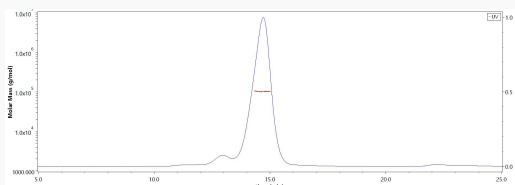
UniProt ID P07766

Bioactivity-ELISA



Immobilized Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His,Avitag&Fc,Flag,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3) with a linear range of 0.4-3 ng/mL.

SEC-MALS

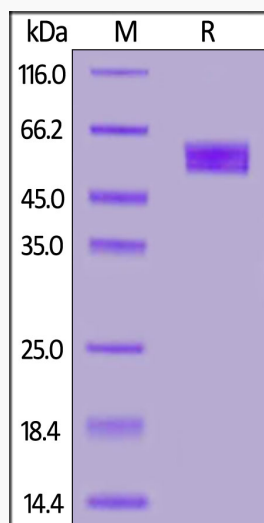


Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA