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

Cat. No. CD3E & CD3D-2973H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human CD3E&CD3D protein(Asp 23-Asp 126 (CD3E) & Phe 22-Ala 105 (CD3D)), fused with Fc-His and Fc-Flag tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Asp 23-Asp 126 (CD3E) & Phe 22-Ala 105 (CD3D)
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag, primary amine labeling at 1 μg/mL (100 μL/well)on streptavidin precoated (0.2 μg/well) plate, can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade with a linear range of 2-20 ng/mL.Immobilized Human BCMA Protein, His Tag (HPLC-verified) at 2 μg/mL, add increasing concentrations of Bispecific T cell Engager (CD3 X BCMA) and then add Biotinylated Human CD3E&CD3D Heterodimer Protein, Fc,His Tag&Fc,Flag Tag, primary amine labeling at 1 μg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 0.39 ng/mL (Intact assay, Routinely tested).

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

Molecular Mass	The subunit CD3E carries a human IgG1 Fc fragment at the C-terminus, followed by a polyhistidine tag. The subunit CD3D carries a human IgG1 Fc fragment at the C-terminus, followed by a flag tag. The protein has a calculated MW of 39.2 kDa (CD3E) and 37.5 kDa (CD3D). The protein migrates as 45-55 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
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.
Conjugation	Biotin

GENE INFORMATION

Gene Name	CD3E CD3e molecule, epsilon (CD3-TCR complex) [Homo sapiens]
Official Symbol	CD3E
Synonyms	CD3E; CD3e molecule, epsilon (CD3-TCR complex); CD3e antigen, epsilon polypeptide (TiT3 complex); T-cell surface glycoprotein CD3 epsilon chain; CD3-epsilon; T-cell surface antigen T3/Leu-4 epsilon chain; T-cell antigen receptor complex, epsilon subunit of T3; T3E; TCRE; FLJ18683;

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

Gene ID	916
mRNA Refseq	NM_000733
Protein Refseq	NP_000724
UniProt ID	P07766

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