

Active Recombinant Human CD3E & CD3G protein, Flag & mFc-tagged

Cat. No. CD3E & CD3G-251H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD3E & CD3G protein of human CD3E (Met1-Asp126)(NP_000724.1) was fused with the C-terminal FLAG-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Ser116) of human CD3G (NP_000064.1) was fused the Fc region of mouse IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3E/CD3G heterodimer was purified.
Species	Human
Source	HEK293
ProteinLength	CD3E(Met1-Asp126) & CD3G(Met1-Ser116)
Form	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to bind OKT3-mIgG2a in a functional ELISA.
Molecular Mass	The recombinant heterodimer of human CD3E/CD3G comprises 681 (353+328) amino acids and has a calculated molecular mass of 76.9 (39.8+37.1) KDa. As a result of glycosylation, the apparent molecular mass of human CD3E/CD3G heterodimer is approximately 42-47 KDa in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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 CD3e molecule, epsilon (CD3-TCR complex) [Homo sapiens]
Official Symbol	CD3E; CD3G
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;
Gene ID	916
mRNA Refseq	NM_000733
Protein Refseq	NP_000724
UniProt ID	P07766

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