



Synonym

CD3E & CD3D,CD3 delta & CD3 epsilon

Source

Human CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc(CDD-H5258) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 126 (CD3E) & Phe 22 - Ala 105 (CD3D) (Accession # [P07766-1](#) (CD3E) & [P04234-1](#) (CD3D)).
Predicted N-terminus: Asp 23 (CD3E) & Phe 22 (CD3D)

Molecular Characterization

CD3E(Asp 23 - Asp 126) P07766-1	LlamaFc(Glu 1 - Ser 243) AAX73259.1
CD3D(Phe 22 – Ala 105) P04234-1	LlamaFc(Glu 1 - Ser 243) AAX73259.1

Human CD3E & CD3D Heterodimer Protein, Llama IgG2b Fc Tag & Llama IgG2b Fc Tag, low endotoxin is produced by co-expression of CD3E and CD3D, has a calculated MW of 42.9 kDa (CD3E) and 40.8 kDa (CD3D). Subunit CD3E is fused with a llama IgG2b Fc tag at the C-terminus and subunit CD3D is fused with a llama IgG2b Fc tag at the C-terminus. The predicted N-terminus is Asp 23 (CD3E) & Phe 22 (CD3D). The reducing (R) protein migrates as 50-60 kDa due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

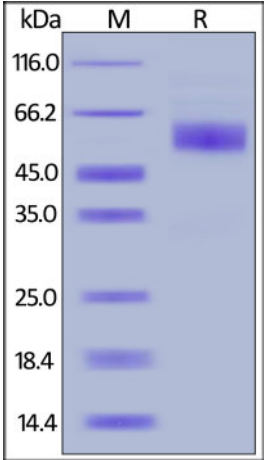
Storage

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.

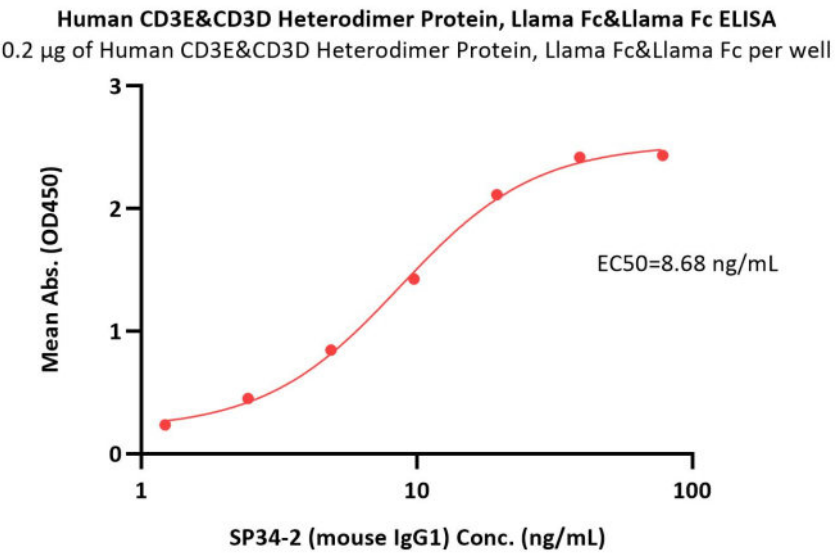
SDS-PAGE



Human CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA





Immobilized Human CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc (Cat. No. CDD-H5258) at 2 µg/mL (100 µL/well) can bind SP34-2 (mouse IgG1) with a linear range of 1-20 ng/mL (Routinely tested).

Background

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.

Clinical and Translational Updates

