Rabbit CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc, low endotoxin (MALS verified)

Catalog # CDD-R5259

Synonym

CD3E & CD3D,CD3 delta & CD3 epsilon

Source

Rabbit CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc(CDD-R5259) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Thr 120 (CD3E) & Thr 22 - Ser 107 (CD3D) (Accession # Q9TUF9-1 (CD3E) & A0A5F9D3I4-1 (CD3D)).
Predicted N-terminus: Gln 22 (CD3E) & Thr 22 (CD3D)

Molecular Characterization

CD3E(Gln 22 - Thr 120) Q9TUF9-1	LlamaFc(Glu 1 - Ser 243) AAX73259.1
CD3D(Thr 22 - Ser 107) A0A5F9D3I4-1	LlamaFc(Glu 1 - Ser 243) AAX73259.1

Rabbit CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc is produced by co-expression of CD3E and CD3D, has a calculated MW of 42.4 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 reducing (R) protein migrates as 50 kDa and 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 PBS, pH7.4 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

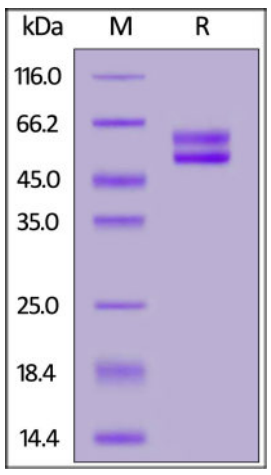
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

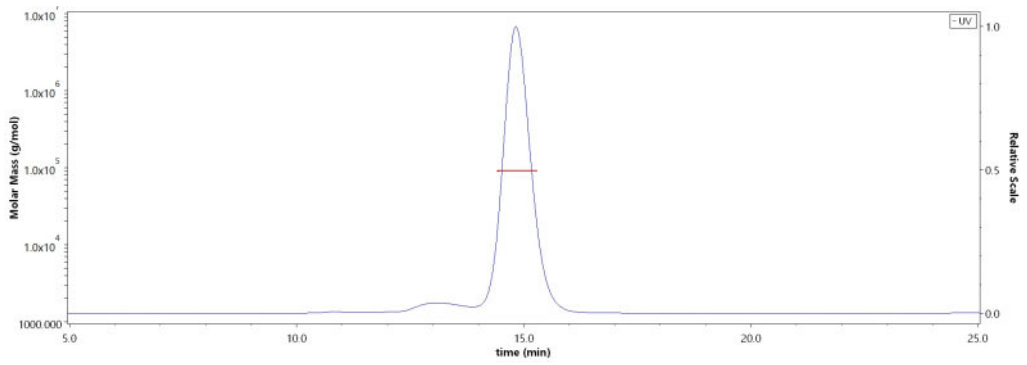
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



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

SEC-MALS



The purity of Rabbit CD3E&CD3D Heterodimer Protein, Llama Fc&Llama Fc (Cat. No. CDD-R5259) is more than 85% and the molecular weight of this protein is around 85-100 kDa verified by SEC-MALS.
Report

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

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.