



Synonym

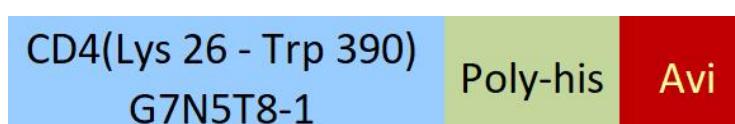
CD4,CD4mut,LEU3

Source

Biotinylated Rhesus macaque CD4,His,Avitag(CD4-R82E3) is expressed from human 293 cells (HEK293). It contains AA Lys 26 - Trp 390 (Accession # [G7N5T8-1](#)).

Predicted N-terminus: Lys 26

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 44.0 kDa. The protein migrates as 52-58 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

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

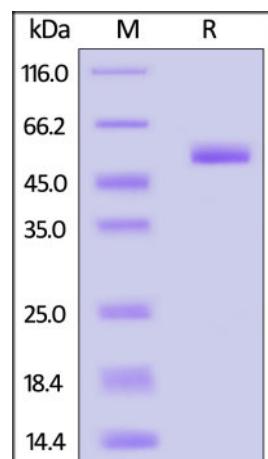
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

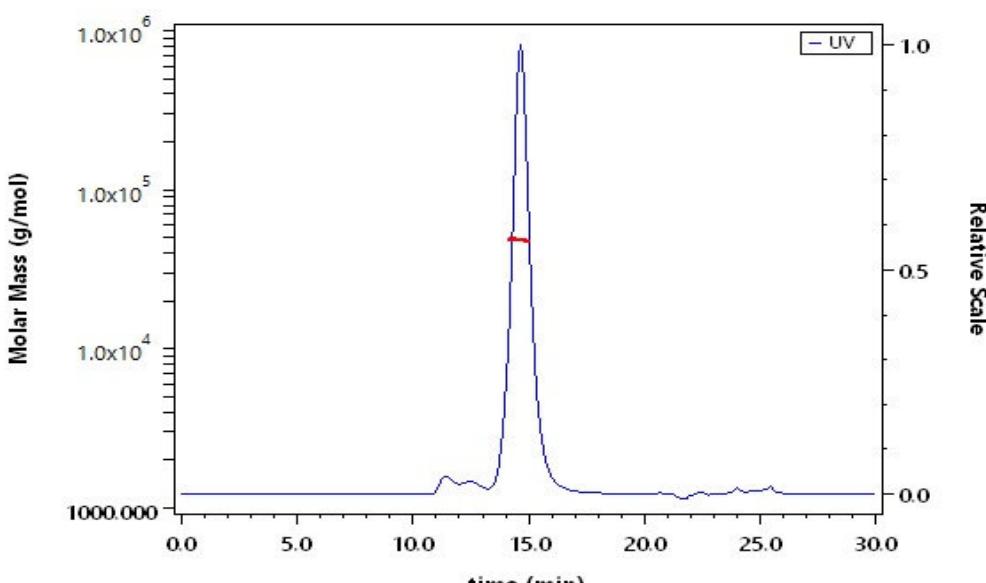
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Rhesus macaque CD4,His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Biotinylated Rhesus macaque CD4,His,Avitag (Cat. No. CD4-R82E3) is more than 90% and the molecular weight of this protein is around 43-53 kDa verified by SEC-MALS.

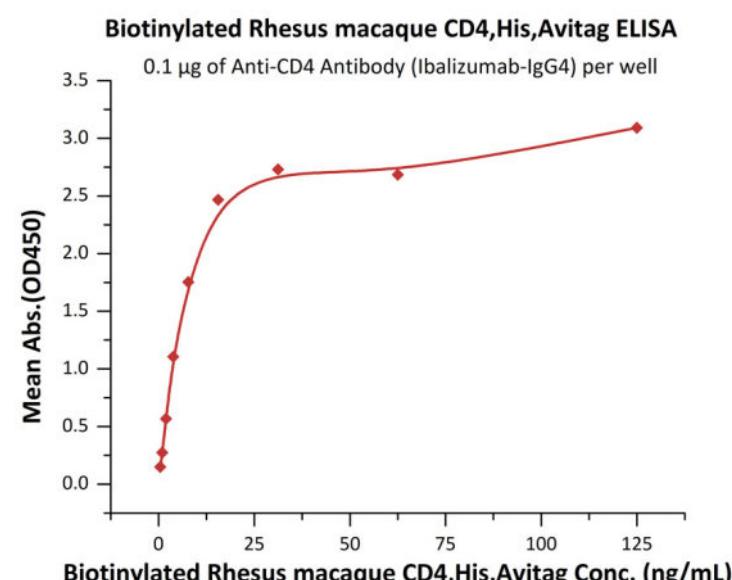
[Report](#)

Bioactivity-ELISA

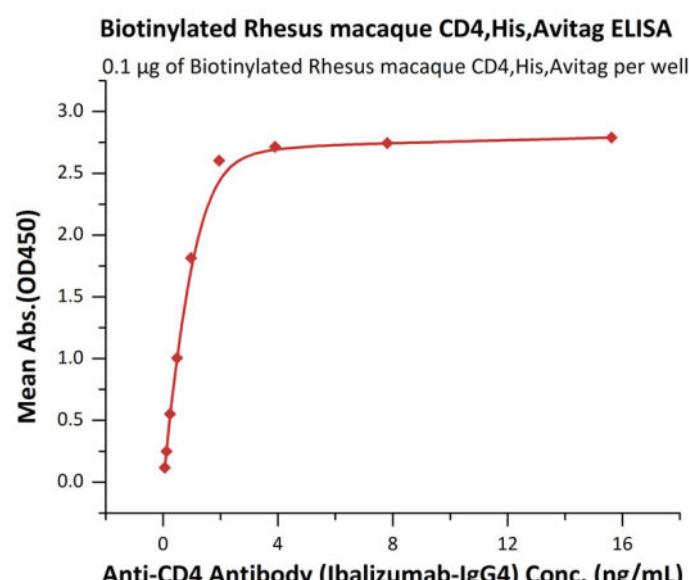
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Immobilized Anti-CD4 Antibody (Ibalizumab-IgG4) at 1 µg/mL (100 µL/well) can bind Biotinylated Rhesus macaque CD4,His,Avitag (Cat. No. CD4-R82E3) with a linear range of 0.5-16 ng/mL (QC tested).



Immobilized Biotinylated Rhesus macaque CD4,His,Avitag (Cat. No. CD4-R82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-CD4 Antibody (Ibalizumab-IgG4) with a linear range of 0.1-2 ng/mL (Routinely tested).

Background

T-cell surface glycoprotein CD4 is also known as T-cell surface antigen T4/Leu-3. CD4 contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CD4 is accessory protein for MHC class-II antigen/T-cell receptor interaction. CD4 induces the aggregation of lipid rafts. CD4 is a primary receptor used by HIV-1 to gain entry into host T cells. HIV infection leads to a progressive reduction of the number of T cells possessing CD4 receptors. Therefore, medical professionals refer to the CD4 count to decide when to begin treatment for HIV-infected patients.

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