



## Synonym

CD4,CD4mut,LEU3

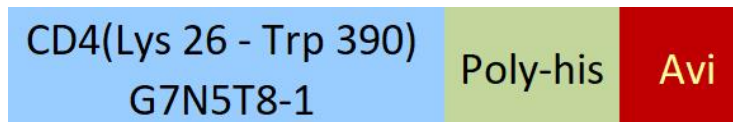
## Source

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.

## 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.

## 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

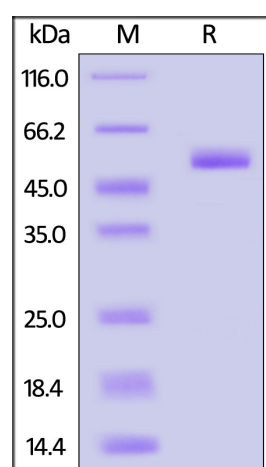
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

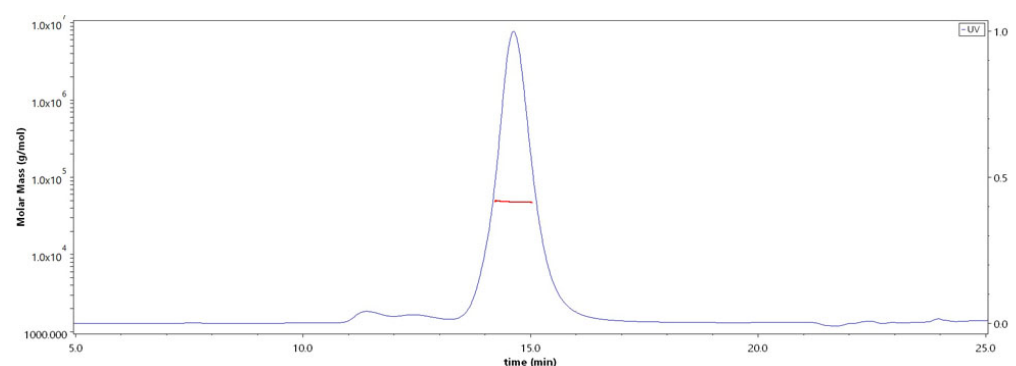
## SDS-PAGE



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%.

## Bioactivity-ELISA

## SEC-MALS

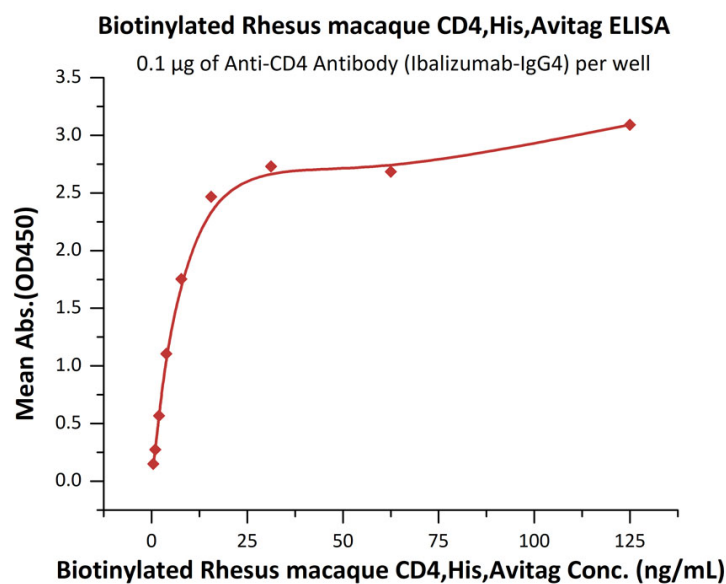


The purity of Biotinylated Rhesus macaque CD4,His,Avitag (Cat. No. CD4-R82E3) is more than 90% and the molecular weight of this protein is around 43-53 kDa verified by SEC-MALS.

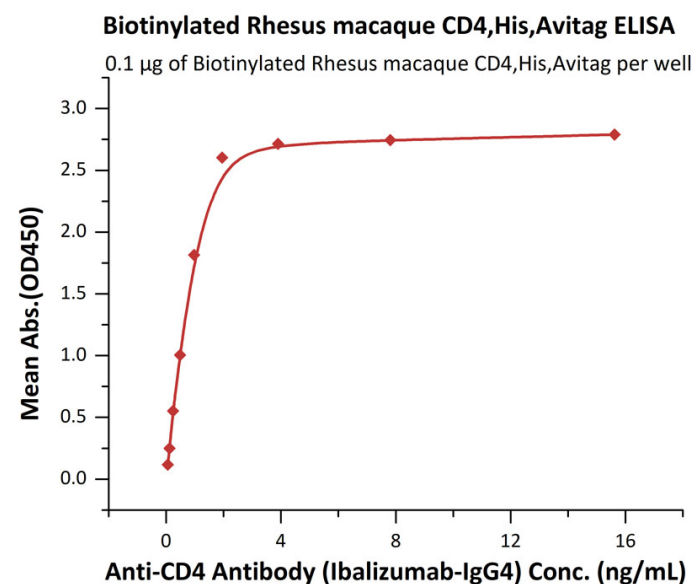
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Immobilized Anti-CD4 Antibody (Ibalizumab-IgG4) at 1 µg/mL (100 µL/well) can bind Biotinylated Rhesus macaque CD4,His,Avitag (Cat. No. CD4-R82E3) with a linear range of 0.5-16 ng/mL (QC tested).



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.

**Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

