Rhesus macaque CD4 Protein, His Tag (MALS verified)

Catalog # CD4-C52H7

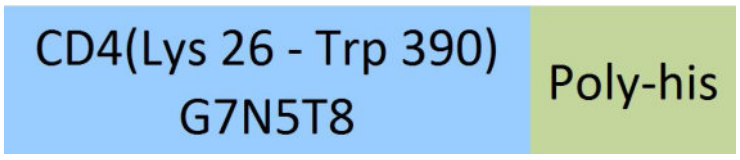
Synonym

CD4,CD4mut,LEU3

Source

Rhesus macaque CD4, His Tag(CD4-C52H7) is expressed from human 293 cells (HEK293). It contains AA Lys 26 - Trp 390 (Accession # G7N5T8).
Predicted N-terminus: Lys 26

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 42.3 kDa. The protein migrates as 50-57 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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

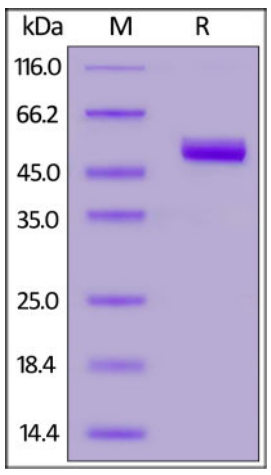
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

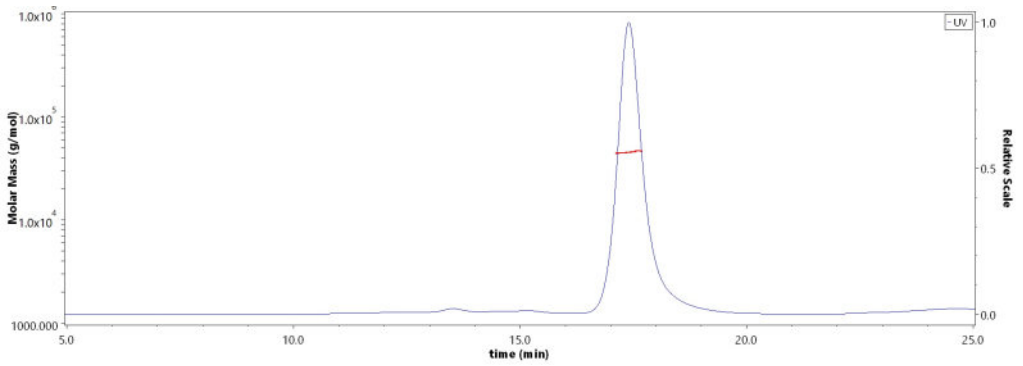
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



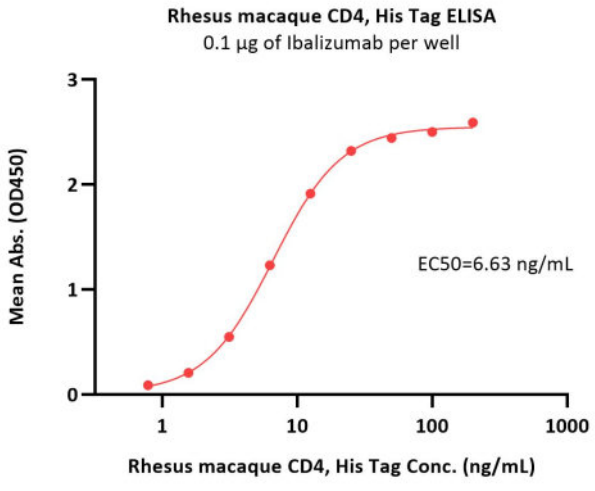
Rhesus macaque CD4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

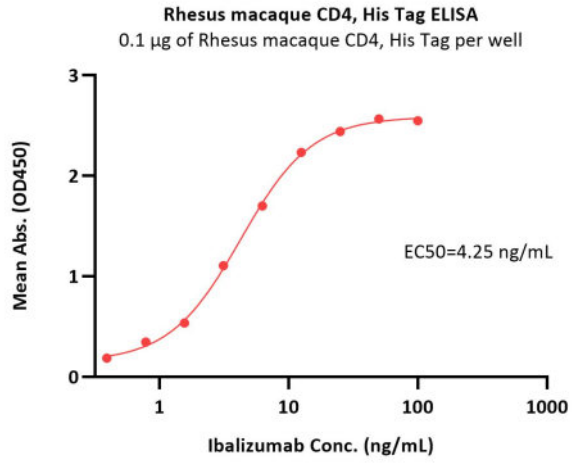


The purity of Rhesus macaque CD4, His Tag (Cat. No. CD4-C52H7) is more than 90% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Ibalizumab at 1 μg/mL (100 μL/well) can bind Rhesus macaque CD4, His Tag (Cat. No. CD4-C52H7) with a linear range of 0.8-13 ng/mL (QC tested).



Immobilized Rhesus macaque CD4, His Tag (Cat. No. CD4-C52H7) at 1 μg/mL (100 μL/well) can bind Ibalizumab with a linear range of 0.2-13 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 if you have any question on this product.