Biotinylated Recombinant Human LEU3/CD4 Protein

Catalog No.: RP00596B

Sequence Information

Species
Human

Gene ID
920

Swiss Prot
P01730

Tags
C-His&Avi

Synonyms
CD4 antigen (p55); CD4 molecule; CD4 receptor; CD4; CD4mut; EU3

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
43.6 kDa

Observed MW
50-60 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD4, also known as L3T4, T4, and W3/25, is an approximately 55 kDa type I transmembrane glycoprotein that is expressed predominantly on thymocytes and a subset of mature T lymphocytes. It is a standard phenotype marker for the identification of T cell populations.Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex.

Basic Information

Description
Biotinylated Recombinant Human LEU3/CD4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys26-Trp390) of Human CD4/LEU3 (Accession #P01730) fused with a C-His&Avi tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

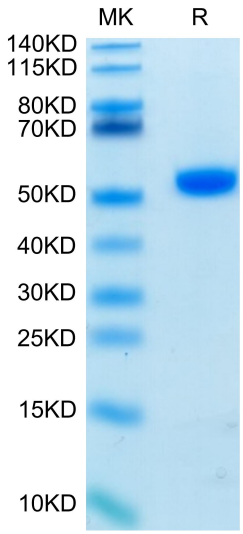
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

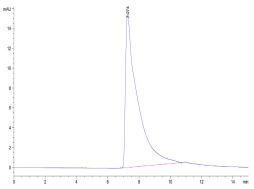
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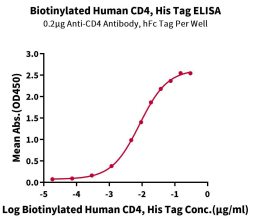
Validation Data



Biotinylated Recombinant Human LEU3/CD4 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human CD4 is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-CD4 Antibody, hFc Tag at 2 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human CD4, His Tag with the EC_{50} of 8.4ng /mL determined by ELISA.