

# Biotinylated Recombinant Human LEU3/CD4 Protein

Catalog No.: RP00596B **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 920     | P01730     |

### Tags

C-His&amp;Avi

### Synonyms

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

## Product Information

| Source       | Purification                    |
|--------------|---------------------------------|
| HEK293 cells | > 95% by SDS-PAGE > 95% by HPLC |

| Calculated MW | Observed MW |
|---------------|-------------|
| 43.6 kDa      | 50-60 kDa   |

### Endotoxin

&lt; 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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.

### Bio-Activity

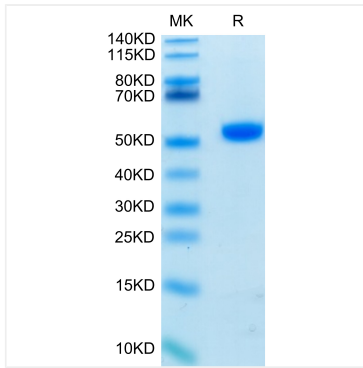
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

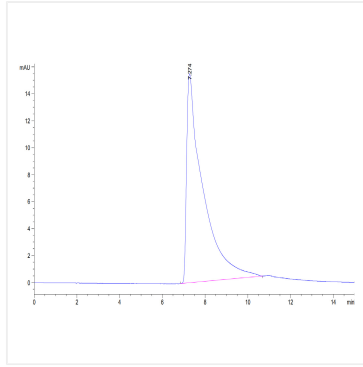
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

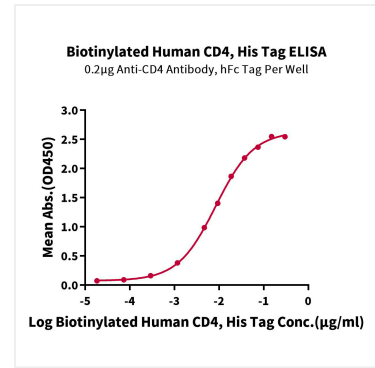
## Validation Data



Biotinylated Human CD4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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<sub>50</sub> of 8.4ng/mL determined by ELISA.