

# Recombinant Human LEU3/CD4 Protein

Catalog No.: RP00079 **Recombinant**

## Sequence Information

**Species** Human    **Gene ID** 920    **Swiss Prot** P01730

### Tags

C-His

### Synonyms

CD4;CD4mut

## Background

This protein is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This protein is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system.

## Basic Information

### Description

Recombinant Human LEU3/CD4 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Lys26-Trp390) of human sCD4 (Accession #NP\_000607.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD4 Protein at 1μg/mL (100 μL/well) can bind CD4 Rabbit mAb with a linear range of 0.006-0.18 ng/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### 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.

### Operational Notes

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

## Product Information

### Source

HEK293 cells

### Purification

≥ 95 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

### Calculated MW

41.53 kDa

### Observed MW

Approximately 55 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### 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

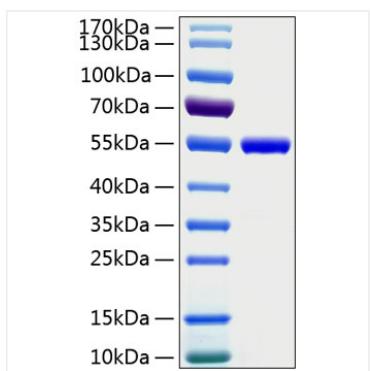


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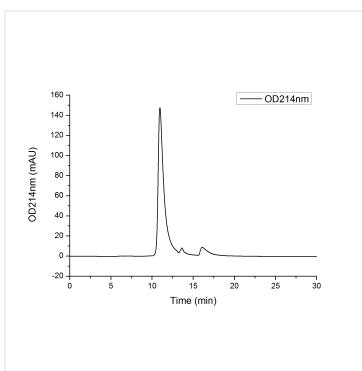
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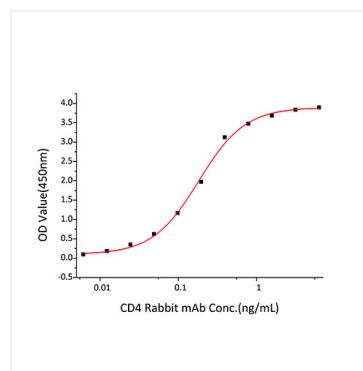
## Validation Data



Recombinant Human LEU3/CD4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human CD4 Protein (Cat.RP00079) was greater than 90% as determined by SEC-HPLC.



Immobilized Human CD4 Protein at 1 $\mu$ g/mL (100  $\mu$ L/well) can bind CD4 Rabbit mAb with a linear range of 0.006-0.18 ng/mL.