

For Research Use Only

# Recombinant Human CD4 protein (His Tag)



Catalog Number: Eg0333

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human CD4 protein Lys26-Pro396 (Accession# P01730) with a His tag at the C-terminus.

**GeneID:**  
920

**Accession:**  
P01730

**Predicted Molecular Mass:**  
42.1 kDa

**SDS-PAGE:**  
50-60 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD4 is a transmembrane glycoprotein of the immunoglobulin super-family (IgSF), containing four extracellular Ig-like domains, a hydrophobic transmembrane region and a 40-residue cytoplasmic tail. CD4 is expressed T helper cells, majority of thymocytes, monocytes, macrophages, and dendritic cells. CD4 is an accessory protein for MHC class-II antigen/T-cell receptor interaction and it is involved in T cell differentiation, development and activation by interacting with antigen-presenting cells (APCs). The cytoplasmic tail of CD4 associates with the Lck kinase, which in turn activates the signaling components of the T cell receptor (TCR)-CD3 complexes. CD4 also serves as a receptor for human immunodeficiency virus (HIV) by binding to the viral envelope glycoprotein gp120.

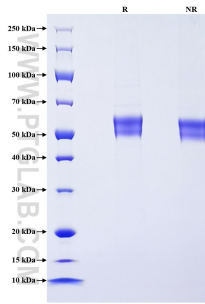
## References

1. Tseng WY, et al. (2013). PLoS One. 8(5):e63963.
2. Bowers K, et al. (1997). Int J Biochem Cell Biol. 29(6):871-875.
3. Graziani-Bowering G, et al. (2002). Exp Cell Res. 279(1):141-152.
4. Moore JP, et al. (1997). Curr Opin Immunol. 9: 551-562.

## Synonyms

CD4, CD4 molecule, CD4mut, T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4

## Selected Validation Data



Purity of Recombinant Human CD4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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