

# Human CD4 (aa 1-208, His Tag) recombinant protein



Catalog Number: 503109

## General Information

### Gene Name Synonym

cDNA, FLJ79360, highly similar to T-cell surface glycoprotein CD4; cDNA, FLJ79361, highly similar to T-cell surface glycoprotein CD4

### Protein Construction

A DNA sequence encoding the human CD4 (NP\_000607.1) N-terminal two domains (D1D2) (Met 1-Ser 208) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind human CD28 in a functional ELISA.
2. Measured by the ability of the immobilized protein to support the adhesion of HeLa human cervical epithelial carcinoma cells. When  $5 \times 10^4$  cells/well are added to CD4 coated plates (2.5  $\mu\text{g/ml}$  and 100  $\mu\text{l/well}$ ), approximately 40 %-60 % will adhere specifically after 60 minutes at 37°C.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

## Predicted N terminal

Lys 26

## Molecular Mass

The secreted recombinant human CD4 (aa 1-208) consists of 194 amino acids and has a predicted molecular mass of 21.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhCD4 is approximately 26 kDa.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

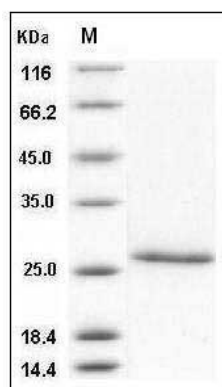
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human CD4 / LEU3 Protein (aa 1-208, His Tag)

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SDS-PAGE