

## Recombinant Human CD4 Protein, C-His-tagged

Cat. No. CD4-172H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD4 Protein with C-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>Cluster of Differentiation 4 (CD4) is a glycoprotein composed of an amino-terminal extracellular domain (four domains: D1-D4 with Ig-like structures), a transmembrane part, and a short cytoplasmic tail. CD4 is expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells, and plays an important role in the development and activation of T cells. On T cells, CD4 is the co-receptor for the T cell receptor (TCR), and these two distinct structures recognize the Antigen–Major Histocompatibility Complex (MHC). Specifically, the D1 domain of CD4 interacts with the <math>\beta</math>2-domain of the MHC class II molecule. CD4 ensures specificity of the TCR–antigen interaction, prolongs the contact between the T cell and the antigen presenting cell, and recruits the tyrosine kinase Lck, which is essential for T cell activation.</p>
<b>Molecular Mass</b>	~41 kDa
<b>AA Sequence</b>	<p>KKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLTkgpsklndrads  RRSLWDQGNFPLIINKLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQGQSLT  LTLESPPGSSPSVQCRSPRGKNIQGGKTLVSQLELQDSGTWTCTVLQNQKKVEFK  IDIVVLAFAQASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITF</p>

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DLKNKEVSVKRVTQDPKLMGKKLPLHLTLPQALPQYAGSGNLTALAEAKTGKLNHQ  
 EVNLVVMRATQLQKNLTCEVWGPTSPKLMLSLKLENKEAKVSKREKAVWVLNPEAG  
 MWQCLLSDSGQVLLESNIKVLPTWSTPVQP

**Purity**

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

**Notes**

For research use only, not for use in diagnostic procedure.

**Storage**

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

**Concentration**

≥0.5 mg/mL

**Storage Buffer**

PBS, 4M Urea, pH7.4

## GENE INFORMATION

**Gene Name**

CD4 CD4 molecule [ Homo sapiens (human) ]

**Official Symbol**

CD4

**Synonyms**

CD4; CD4 molecule; CD4 antigen (p55) , T cell surface glycoprotein CD4; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3; CD4mut;

**Gene ID**

920

**mRNA Refseq**

NM\_000616

**Protein Refseq**

NP\_000607

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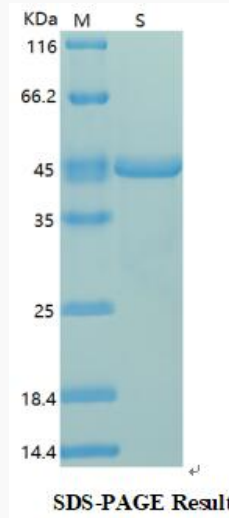
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**MIM** 186940

**UniProt ID** P01730

**SDS-PAGE**



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