

Recombinant Human CD4 Protein, C-His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CD4 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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 β 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.
Molecular Mass	~41 kDa
AA Sequence	KKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLT KGPSKLNDRADS RRSLWDQGNFPLIKNLKI ESDTYICEVEDQKEEVQLLVFGLTANS DTHLLQGQSLT LTLESPPGSSPSVQCRSPRGKNIQGGKTL SVSQLELQDSGTWTCTVLQNQKKVEFK IDIVVLAFQKASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITF

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DLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPQALPQYAGSGNLTALAEAKTGKLHQ
 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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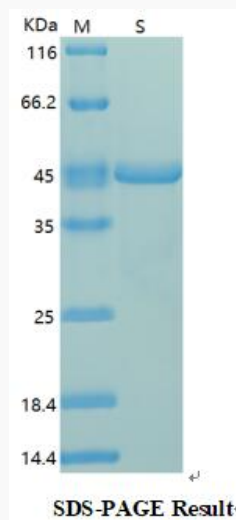
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MIM 186940

UniProt ID P01730

SDS-PAGE



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