

## Recombinant Human CD4 Molecule, His-tagged (125-202aa)

Cat. No. CD4-101H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD-4 is expressed in E. coli encoding 125-202 amino acids, having a total molecular weight of 15kDa and fused to an amino terminal hexahistidine tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	125-202 a.a.
<b>Description</b>	CD4, a single chain transmembrane glycoprotein, is found on a T cell subset (helper/inducer) representing 45% of peripheral blood lymphocytes. It is also present on 80% of thymocytes and at a lower level on monocytes. It is involved in recognition of antigen presented along with MHC class II by APCs. It serves as receptor for HIV. Antibody to CD4 recognizes T-helper cells required for recognition of class II antigens. It reacts with ~60% of peripheral blood E rosette-positive (E+) cells while showing negligible reactivity with E-cells, monocytes, granulocytes, EBV-transformed B cell lines, and mouse splenocytes.
<b>Physical Appearance</b>	Sterile lyophilized powder.
<b>Purity</b>	Greater than 90% determined by SDS-PAGE.
<b>Formulation</b>	Each mg contains 1X PBS.

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<b>Solubility</b>	It is recommended to reconstitute the lyophilized CD-4 (125-202) in sterile 18MΩ-cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
<b>Application</b>	• Protein Assay • Antibody Production • Western Blotting
<b>Storage</b>	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	CD4 CD4 molecule [ <a href="#">Homo sapiens</a> ]
<b>Synonyms</b>	CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 antigen (p55); T-cell surface antigen T4/Leu-3; CD_antigen; CD4 antigen; CD4 receptor
<b>Gene ID</b>	<a href="#">920</a>
<b>mRNA Refseq</b>	<a href="#">NM_000616</a>
<b>Protein Refseq</b>	<a href="#">NP_000607</a>
<b>MIM</b>	<a href="#">186940</a>
<b>UniProt ID</b>	<a href="#">P01730</a>
<b>Chromosome Location</b>	12pter-p12
<b>Pathway</b>	Antigen processing and presentation; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; Primary immunodeficiency; T cell receptor signaling

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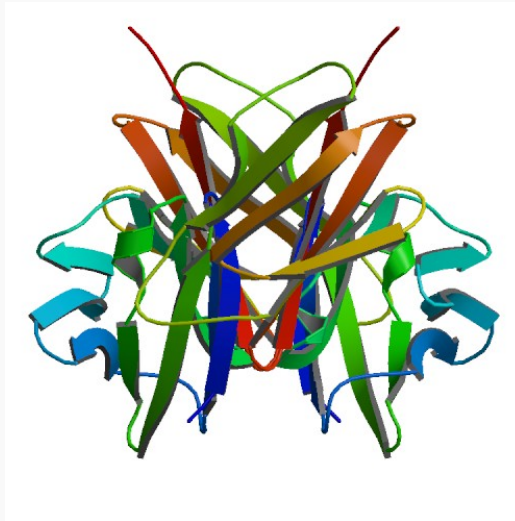
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pathway; HIV Infection; Signaling in Immune system

**Function**

MHC class II protein binding; coreceptor activity; extracellular matrix structural constituent; protein homodimerization activity; protein kinase binding; transmembrane receptor activity; zinc ion binding

**Crystallographic structure of the V-set and C2 domains of human CD4.**



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