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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	125-202 a.a.
Description	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.
Physical Appearance	Sterile lyophilized powder.
Purity	Greater than 90% determined by SDS-PAGE.
Formulation	Each mg contains 1X PBS.

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Solubility	It is recommended to reconstitute the lyophilized CD-4 (125-202) in sterile 18MΩ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Application	• Protein Assay • Antibody Production • Western Blotting
Storage	Store vial at -20℃to -80℃. When stored at the recommended temperature, this protein is stable for 12months. Please avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Homo sapiens]
Synonyms	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
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940
UniProt ID	P01730
Chromosome Location	12pter-p12
Pathway	Antigen processing and presentation; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; Primary immunodeficiency; T cell receptor signaling

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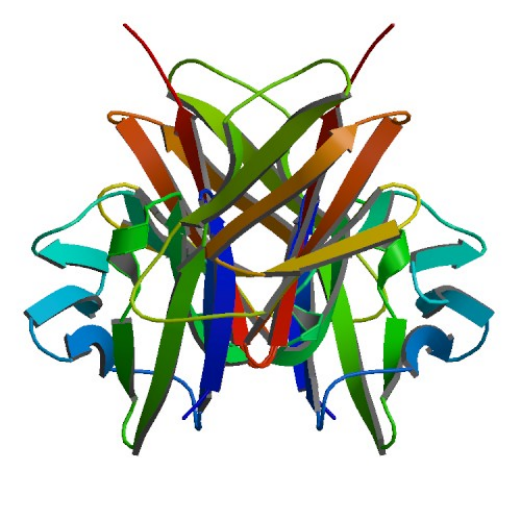
	pathway; HIV Infection; Signaling in Immune system
Function	MHC class II protein binding; coreceptor activity; extracellular matrix structural constituent; protein homodimerization activity; protein kinase binding; transmembrane receptor activity; zinc ion binding
Crystallographic structure of the V-set and C2 domains of human CD4.	

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