

Recombinant Human CD4 Molecule(26-226aa)

Cat. No. CD4-103H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD-4 produced in <i>Escherichia Coli</i> encodes amino acids 26-226.
Species	Human
Source	E.coli
ProteinLength	26-226 a.a.
Description	<p>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.</p>
Physical Appearance	Sterile filtered liquid.
Formulation	Recombinant Human protein at 100g/ml in 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
Application and Suggested Dilutions	•ELISA •Inhibition Assays •Western Blotting

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Characterization	On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 48kDa.
Storage	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 cycle.
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 pathway; HIV Infection; Signaling in Immune system
Function	MHC class II protein binding; coreceptor activity; extracellular matrix structural

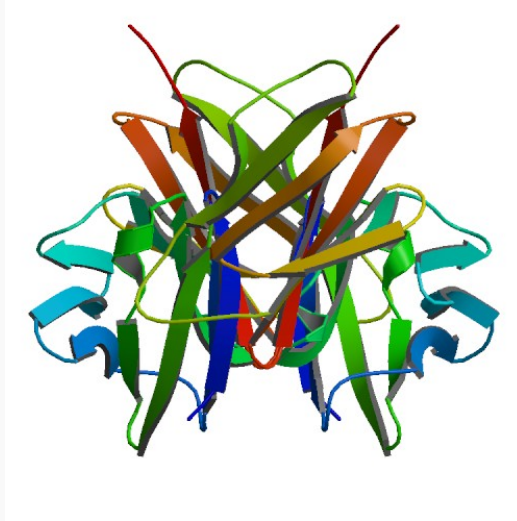
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constituent; protein homodimerization activity; protein kinase binding; transmembrane receptor activity; zinc ion binding

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



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