

Recombinant Human CD4, Fc Chimera

Cat. No. CD4-3030H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD4 Fc Chimera (rhCD4-Fc) Lys26-Trp390 fused with Fc fragment Of human IgG1 at the C-terminal, was expressed in human HEK293 cells and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
Description	This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.
Purity	>95% as determined by SDS-PAGE. All lots are greater than 90% pure.
Molecular Weight	68 kDa
Formulation	Bulk protein in a 0.22 µm filtered solution of 50 mM Tris, 100 mM Glycine, pH 7.0 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.

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Predicted N-terminal	Lys26
Endotoxin	Less than 1.0 EU per 1 µg of the rhCD4-Fc by the LAL method.
Storage	Store at -20°C in lyophilized state after receipt. For long term storage, upon reconstitution rhCD4-Fc should be aliquot and store at -20°C or -80°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Homo sapiens]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3; CD4 (L3T4) ;T Cell Surface Antigen T4/Leu3; T Cell Surface Glycoprotein CD4; W3/25; W3/25 antigen; CD4 Antigen; CD4 Receptor ;CD4_HUMAN ;Lymphocyte antigen CD4; MGC165891 ;OTTHUMP00000238897; T cell differentiation antigen L3T4
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
UniProt ID	P01730
Chromosome Location	12p13.31

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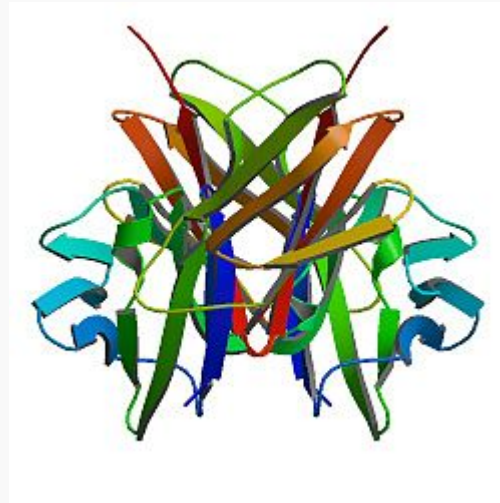
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Pathway

Adaptive Immune System; Alpha-defensins; Antigen processing and presentation

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



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