

Recombinant Human CD4

Cat. No. CD4-26367TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CD4.
Species	Human
Source	Sf9 Cells
ProteinLength	365 amino acids
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.
Biological activity	Immune reactive in ELISA using monoclonal anti CD4 in gp120 capture ELISA assays.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 7.00Constituents:0.14% Sodium phosphate, 0.01% Tween, 1.76% Sodium chloride
Storage	Shipped at 4°C. Store at -20oC.
Sequences of amino acids	KKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLT KGPSKLNDRADS RRSLWDQGNFPLIINKLIEDSDTYICEVEDQKEEVQLLVFGLTANS DTHLLQGQSLT LTLESPPGSSPSVQCRSPRGKNIQGGKTL SVSQLELQDSGTWTCTVLQNQKKVEFK IDIVVLA FQKASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITF DLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGK LHQ EVNLVVMRATQLQKNLTCEVWGPTSPKLM LSLKLENKEAKVSKREKAVWVLNPEAG MWQCLLSDSGQVLLESNIKVLPTW
Sequence Similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains.Contains 1 Ig-like V-type (immunoglobulin-like) domain.

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Homo sapiens]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; CD4 antigen (p55); T-cell surface glycoprotein CD4;
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940

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Uniprot ID	P01730
Chromosome Location	12pter-p12
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Arf1 pathway, organism-specific biosystem; Binding and entry of HIV virion, organism-specific biosystem;
Function	MHC class II protein binding; coreceptor activity; enzyme binding; extracellular matrix structural constituent; glycoprotein binding;

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