

Recombinant Human CD4 Protein, His & Avi-tagged

Cat. No. CD4-24H Lot. No. (See product label)

SPECIFICATION

Product Overview	Biotinylated Human CD4, His Tag is expressed from human 293 cells (HEK293). It contains AA Lys 26 - Pro 396. This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag. The single lysine residue in the Avitag is enzymatically labeled with biotin.
Species	Human
Source	HEK293
ProteinLength	26-396 a.a.
Description	T-cell surface glycoprotein CD4 is also known as T-cell surface antigen T4/Leu-3. CD4 contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CD4 is accessory protein for MHC class-II antigen/T-cell receptor interaction. CD4 induces the aggregation of lipid rafts. CD4 is a primary receptor used by HIV-1 to gain entry into host T cells. HIV infection leads to a progressive reduction of the number of T cells possessing CD4 receptors. Therefore, medical professionals refer to the CD4 count to decide when to begin treatment for HIV-infected patients.
Predicted N Terminal	Lys 26
Molecular Mass	The protein has a calculated MW of 45.0 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>No activity loss is observed after storage at:</p> <p>4-8 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

GENE INFORMATION

Gene Name	CD4
Official Symbol	CD4 CD4 molecule [Homo sapiens (human)]
Synonyms	CD4; CD4mut; LEU3; CD4 molecule; T-cell surface glycoprotein CD4; CD4 antigen (p55); CD4 receptor; T-cell surface antigen T4/Leu-3
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940

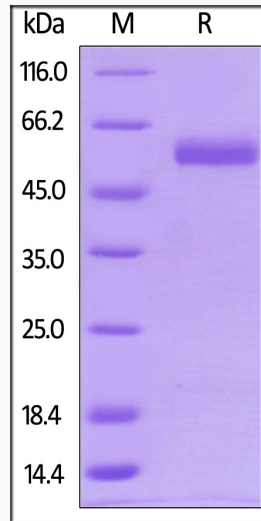
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UniProt ID

P01730

SDS-PAGE

Biotinylated Human CD4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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