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	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
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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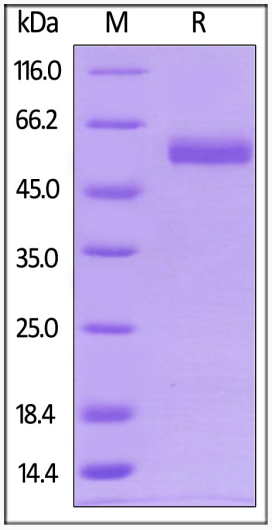
UniProt ID	P01730
SDS-PAGE	 Biotinylated Human CD4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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