

Recombinant Rhesus macaque CD4 protein, Fc-tagged

Cat. No. CD4-740R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus macaque CD4 (Lys26-Trp390) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Rhesus macaque
Source	HEK293
ProteinLength	Lys26-Trp390
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	Lys26
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 67.0 kDa. The protein migrates as 67-85 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>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

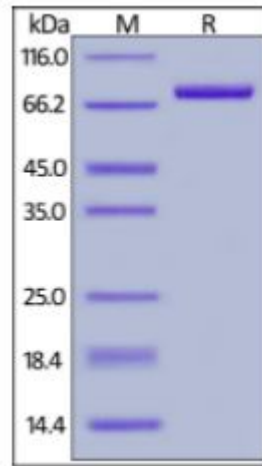
Gene Name	CD4
Official Symbol	CD4
Synonyms	CD4mut
Gene ID	713807
mRNA Refseq	NM_001042662.1
Protein Refseq	NP_001036127.1
UniProt ID	P16003

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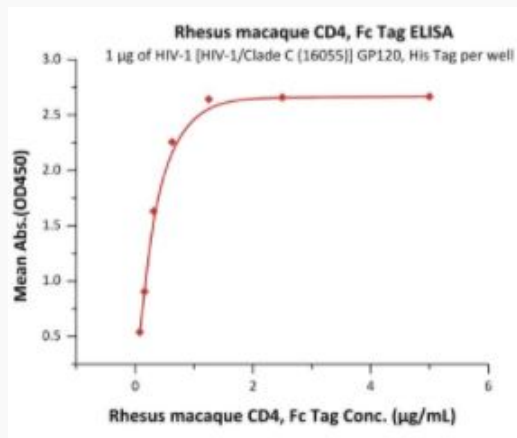
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SDS-PAGE of CD4-740R



Rhesus macaque CD4, Fc 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%.

Bioactivity-ELISA of CD4-740R



Immobilized HIV-1 [HIV-1/Clade C (16055)] GP120, His Tag at 10 µg/mL (100 µL/well) can bind Rhesus macaque CD4, Fc Tag with a linear range of 0.04-0.31 µg/mL (QC tested).

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