

Active Recombinant Human CD4 protein, His-tagged

Cat. No. CD4-3836H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD4 protein(NP_000607.1)(Met1-Ser208), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Ser208
Form	Lyophilized from sterile PBS, 10% glycerol, 1 mM EDTA, pH 7.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its ability to bind biotinylated GP140-His in a functional ELISA. 2. Measured by the ability of the immobilized protein to support the adhesion of NIH-3T3 mouse embryonic fibroblast cells. When 5×10^4 cells/well are added to CD4-coated plates (0.8 $\mu\text{g/mL}$ and 100 $\mu\text{l/well}$), approximately >50 % will adhere specifically after 30 minutes at 37°C.
Molecular Mass	The secreted recombinant human CD4 (aa 1-208) consists of 194 amino acids and has a predicted molecular mass of 21.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhCD4 is approximately 26 kDa.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method

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Purity	> 94 % as determined by SDS-PAGE
Storage	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
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 CD4 molecule [Homo sapiens]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; CD4 antigen (p55) , T cell surface glycoprotein CD4; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3; CD4mut;
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940
UniProt ID	P01730

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