

Active Recombinant Human CD8A Protein, Fc Tagged, Low endotoxin

Cat. No. CD8A-11215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD8 alpha Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ser 22-Asp 182 (Accession # P01732-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Ser 22
Species	Human
Source	HEK293
ProteinLength	22-182 aa
Description	Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human CD8 alpha Protein, Fc Tag at 1 µg/mL (100 µL/well) can bind Anti-CD8 alpha Antibody, Human IgG1 with a linear range of 0.2-8 ng/mL.

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Molecular Mass	The protein has a calculated MW of 44.1 kDa. The protein migrates as 53-58 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please 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 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD8A CD8a molecule [Homo sapiens (human)]
Official Symbol	CD8A
Synonyms	CD8A; CD8a molecule; CD8, CD8 antigen, alpha polypeptide (p32), T cell surface glycoprotein CD8 alpha chain; T-cell surface glycoprotein CD8 alpha chain; T8 T-cell antigen; T cell co-receptor; OKT8 T-cell antigen; T-cell antigen Leu2; Leu2 T-lymphocyte antigen; CD8 antigen, alpha polypeptide (p32); T-lymphocyte differentiation antigen T8/Leu-2; CD8; MAL; p32; Leu2;
Gene ID	925

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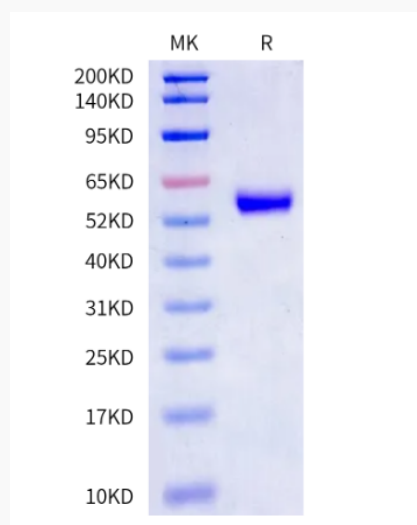
mRNA Refseq [NM_001145873](#)

Protein Refseq [NP_001139345](#)

MIM [186910](#)

UniProt ID [P01732](#)

SDS-PAGE



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