

Human CD8 alpha/CD8A Protein

Cat. No. CD8-HM48A

Description

Source	Recombinant Human CD8 alpha/CD8A Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Ser22-Asp182.
Accession	P01732-1
Molecular Weight	The protein has a predicted MW of 20.5 kDa. Due to glycosylation, the protein migrates to 31-35 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

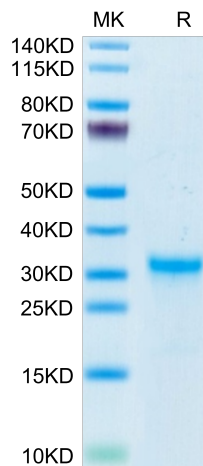
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

CD8 alpha enhances the responses of antigen-specific CTL activated through TCR through binding MHC class I, favoring lipid raft partitioning of TCR, and inducing intracellular signaling. CD8 alpha is also found on dendritic cells and rat macrophages, but whether CD8 alpha enhances responses of a partner receptor, like TCR, to activate these cells is not known.

Assay Data

Tris-Bis PAGE



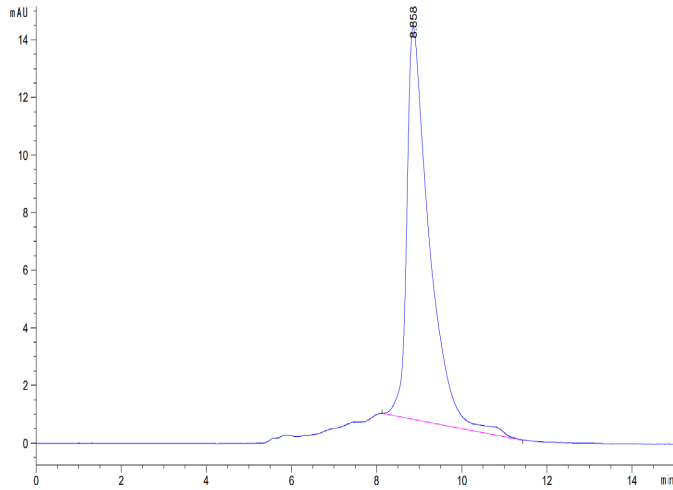
Human CD8 alpha/CD8A on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Human CD8 alpha/CD8A Protein

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Assay Data

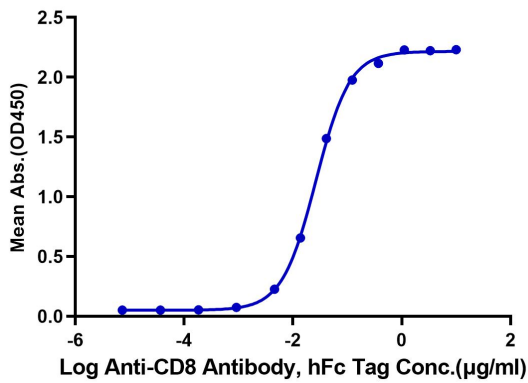


The purity of Human CD8 alpha/CD8A is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD8 alpha, His Tag ELISA

0.5µg Human CD8 alpha, His Tag Per Well



Immobilized Human CD8 alpha, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD8 Antibody, hFc Tag with the EC50 of 26.3ng/ml determined by ELISA.