

Human CD8 alpha/CD8A Protein

Cat. No. CD8-HM28A

Description

Source	Recombinant Human CD8 alpha/CD8A Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus. It contains Ser22-Asp182.
Accession	P01732-1
Molecular Weight	The protein has a predicted MW of 43.55 kDa. Due to glycosylation, the protein migrates to 53-63 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

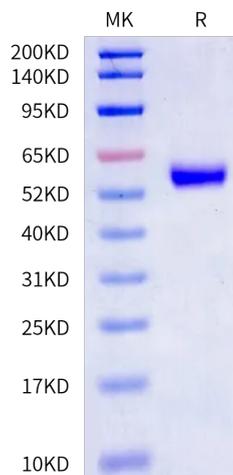
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize 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.

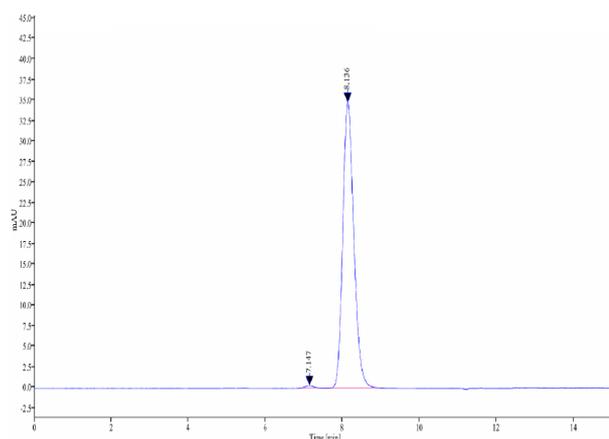
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



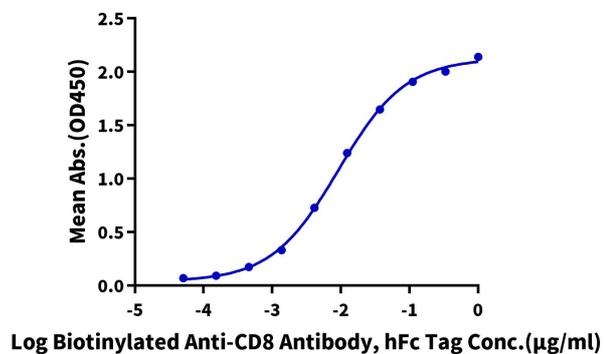
The purity of Human CD8 alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human CD8 alpha, hFc Tag ELISA

0.05µg Human CD8 alpha, hFc Tag Per Well



Immobilized Human CD8 alpha, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-CD8 Antibody, hFc Tag with the EC50 of 9.2ng/ml determined by ELISA.