

# Biotinylated Human CD8 alpha/CD8A Protein

Cat. No. CD8-HM48AB

## Description

<b>Source</b>	Recombinant Biotinylated Human CD8 alpha/CD8A Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser22-Asp182.
<b>Accession</b>	P01732-1
<b>Molecular Weight</b>	The protein has a predicted MW of 20.5 kDa. Due to glycosylation, the protein migrates to 30-38 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

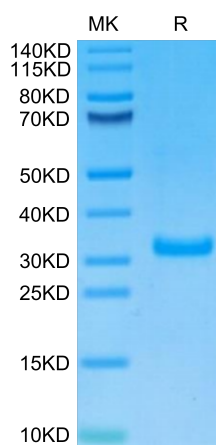
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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

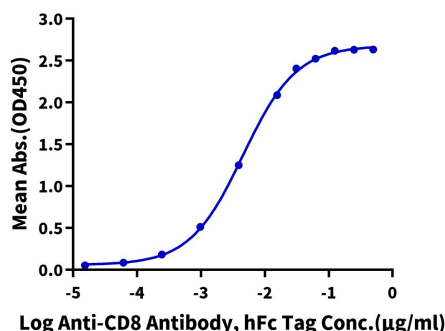


Biotinylated Human CD8 alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Biotinylated Human CD8 alpha, His Tag ELISA

0.05µg Biotinylated Human CD8 alpha, His Tag Per Well



Immobilized Biotinylated Human CD8 alpha, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CD8 Antibody, hFc Tag with the EC50 of 4.6ng/ml determined by ELISA (QC Test).