

# Biotinylated Recombinant Human CD8 alpha Protein

Catalog No.: RP00587B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	925	P01732-1

### Tags

C-His&Avi

### Synonyms

CD8a; Lyt-2; CD8; Leu2; MAL; p32; CD8a molecule; OKT8 T-cell antigen

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Calculated MW	Observed MW
20.5 kDa	30-38 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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.

## Basic Information

### Description

Biotinylated Recombinant Human CD8 alpha Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser22-Asp182) of Human CD8 alpha (Accession #P01732-1) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

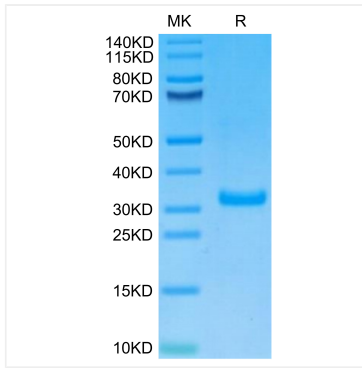
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

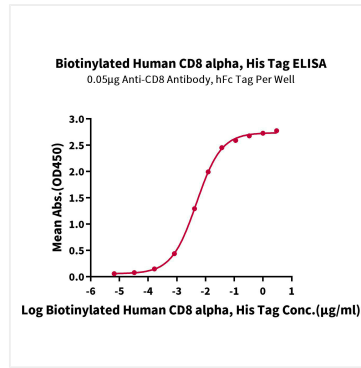
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data



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



Immobilized Anti-CD8 Antibody, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human CD8 alpha, His Tag with the  $EC_{50}$  of 4.8ng/mL determined by ELISA.