

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 % as

determined 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 stablizer (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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

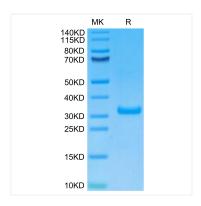
Avoid repeated freeze/thaw cycles.

Operational Notes

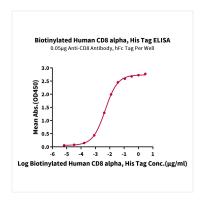
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Biotinylated Recombinant Human CD8 alpha Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Anti-CD8 Antibody, hFc Tag at 0.5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Human CD8 alpha, His Tag with the EC₅₀ of 4.8ng/mL determined by ELISA.