

Recombinant Human CD8 alpha Protein

Catalog No.: RP00586

Sequence Information

Species	Gene ID
Human	925
Swiss Prot	Tags
P01732-1	C-His

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
18.70 kDa	28-35 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.

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

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 tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

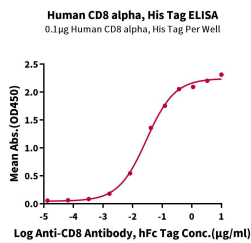
Contact

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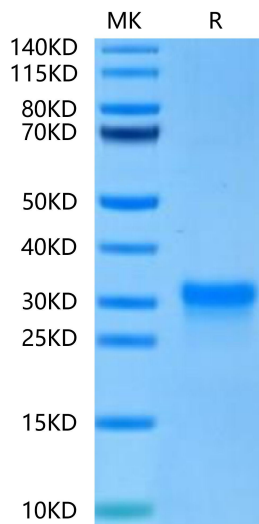
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Validation Data



Immobilized Human CD8 alpha, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-CD8 Antibody, hFc Tag with the EC₅₀ of 29.4ng/mL determined by ELISA.



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