

FITC-Labeled Human CD8 alpha / CD8A Protein, His TagStar Staining

Catalog # CDA-HF2H3



Synonyms

CD8A, CD8, Leu2, MAL, p32

Source

FITC-Labeled Human CD8 alpha Protein, His Tag (CDA-HF2H3) is produced via conjugation of FITC to Human CD8 alpha, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human CD8 alpha, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 22 - Asp 182 (Accession # [P01732-1](#)).

Predicted N-terminus: Ser 22

Molecular Characterization

CD8A(Ser 22 - Asp 182) P01732-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 21.5 kDa. The protein migrates as 42-52 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.03% Proclin 300, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

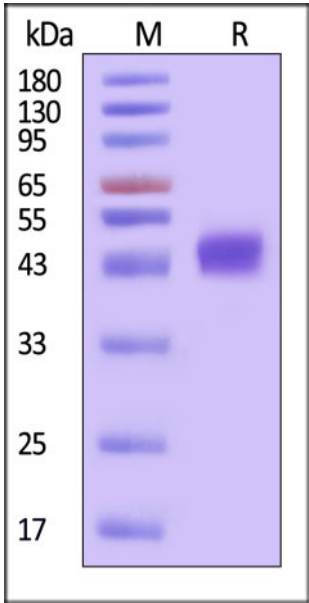
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

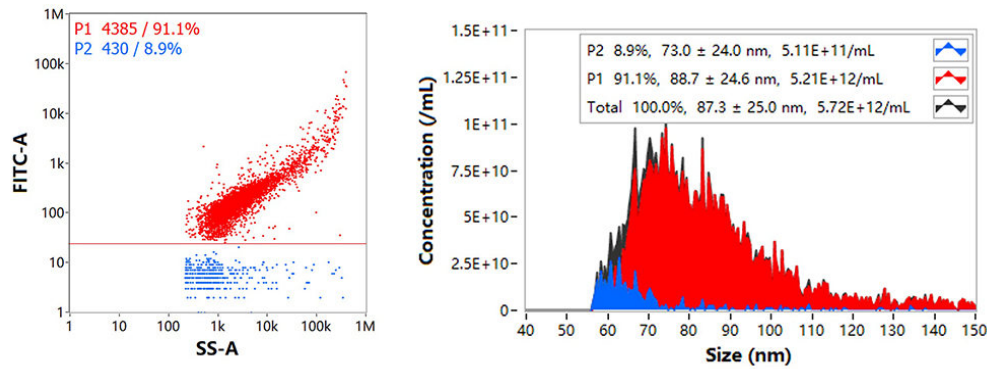
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



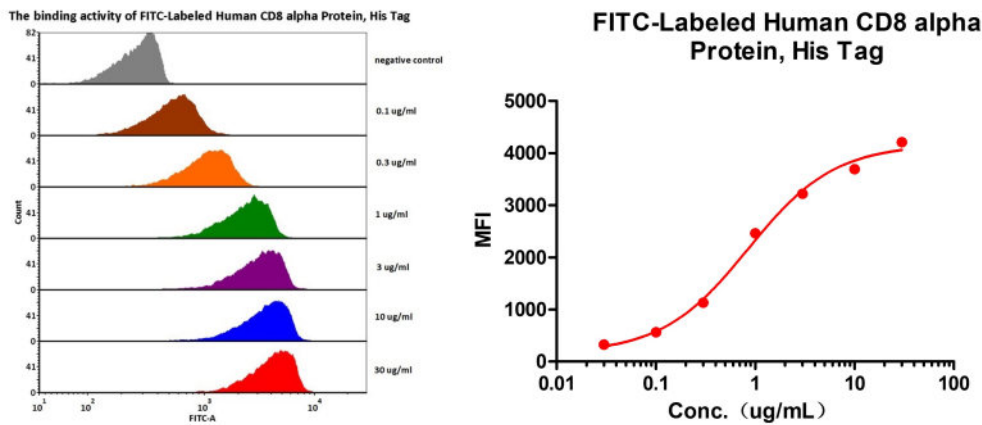
FITC-Labeled Human CD8 alpha Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Nanoflow Cytometry (tLNP)



2-3*10¹⁰ particles/mL of tLNP-hCD8-Ab (tLNP Coupling CD8 Ab) were stained with 1 µg/mL of FITC-Labeled Human CD8 alpha Protein, His Tag (Cat. No. CDA-HF2H3), FITC signal was used to evaluate the binding activity (Routinely tested).

Bioactivity-Flow Cytometry



1e5 of Mouse Anti-CD8 antibody coupled beads (5.5µm) were stained with different concentration of FITC-Labeled Human CD8 alpha Protein, His Tag (Cat. No. CDA-HF2H3) and negative control protein respectively, FITC signal was used to evaluate the binding activity (QC tested).

Background

Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells.

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