Alexa Fluor™ 488-Labeled Human CD8 beta Protein, His Tag (HPLC verified)

Catalog # CD8-HA2H3

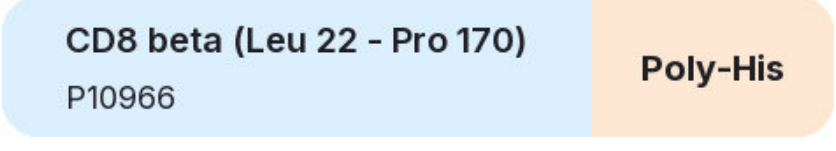
Synonyms

CD8B, CD8B1, LEU2, LY3, LYT3, P37

Source

Alexa Fluor 488-Labeled Human CD8 beta Protein, His Tag (CD8-HA2H3) is expressed from human 293 cells (HEK293). It contains AA Leu 22 - Pro 170 (Accession # P10966).

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 33.5 kDa. The protein migrates as 35-45 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with AF488 using standard chemical labeling method. The residual AF488 is removed by molecular sieve treatment during purification process.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 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.

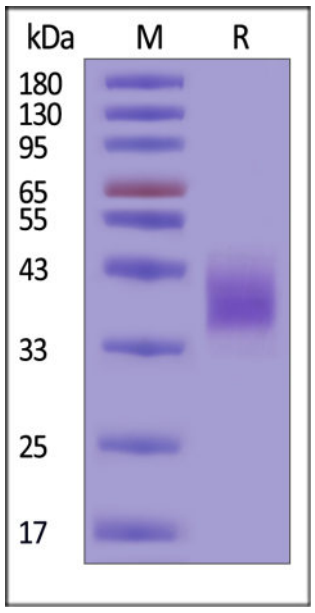
This product is stable after storage at:

- -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

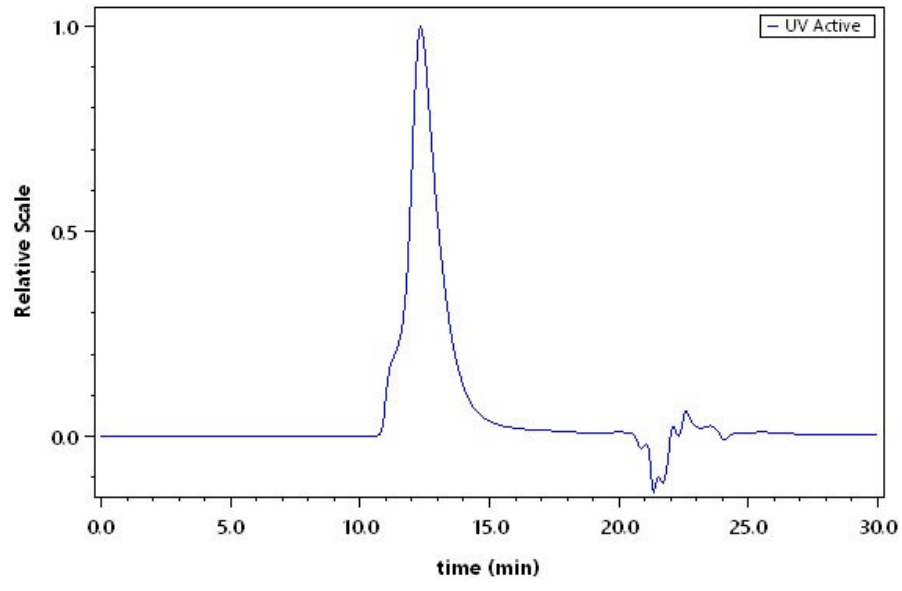
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



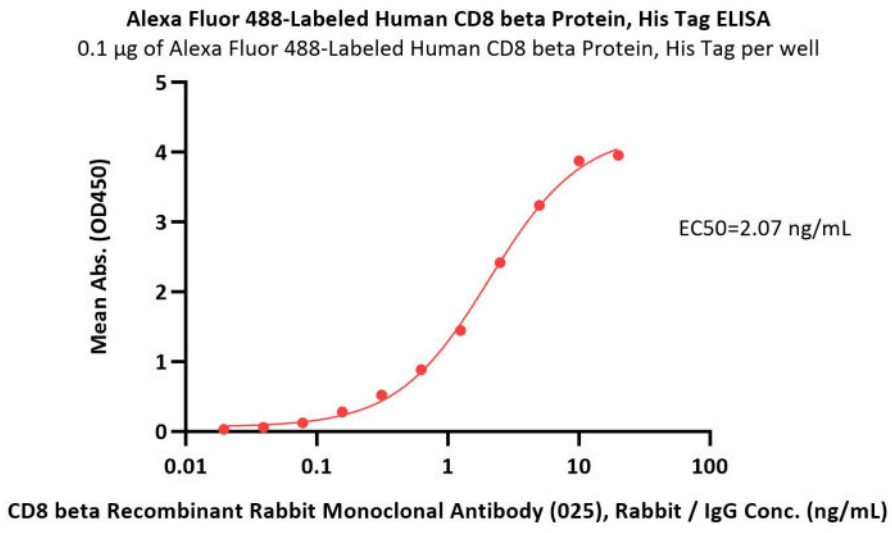
Alexa Fluor 488-Labeled Human CD8 beta Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-HPLC



The purity of Alexa Fluor 488-Labeled Human CD8 beta Protein, His Tag (Cat. No. CD8-HA2H3) was greater than 90% as determined by SEC-HPLC.

Activity-ELISA



Immobilized Alexa Fluor 488-Labeled Human CD8 beta Protein, His Tag (Cat. No. CD8-HA2H3) at 1 μg/mL (100 μL/well) can bind CD8 beta Recombinant Rabbit Monoclonal Antibody (025), Rabbit / IgG with a linear range of 0.02-3 ng/mL (QC tested).

Background

CD8B, also named P37 and LEU2, serves as the beta subunit of CD8 molecule with one Ig-like V-type domain. It mainly expresses on cytotoxic T lymphocytes and forms a heterodimer with CD8α. As an essential co-receptor, it cooperates with TCR to recognize MHC class I-restricted antigens on APCs and stabilizes immune cell interactions. The CD8B gene generates multiple spliced variants encoding membrane-bound and secreted isoforms, and participates in T cell activation and cytotoxic immune responses.

Discounts, Gifts, and more!