

# Human CD8 beta Protein, His Tag (MALS verified)

Catalog # CD8-H52H5



## Synonyms

CD8B, CD8B1, LEU2, LY3, LYT3, P37

## Source

Human CD8 beta Protein, His Tag (CD8-H52H5) is expressed from human 293 cells (HEK293). It contains AA Leu 22 - Pro 170 (Accession # [P10966-1](#)).

Predicted N-terminus: Leu 22

## Molecular Characterization

CD8 beta (Leu 22 - Pro 170)  
P10966-1

Poly-His

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

The protein has a calculated MW of 18.7 kDa. The protein migrates as 27-33 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

## Endotoxin

Less than 0.05 EU per µg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5 M Arginine, 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 avoid repeated freeze-thaw cycles.**

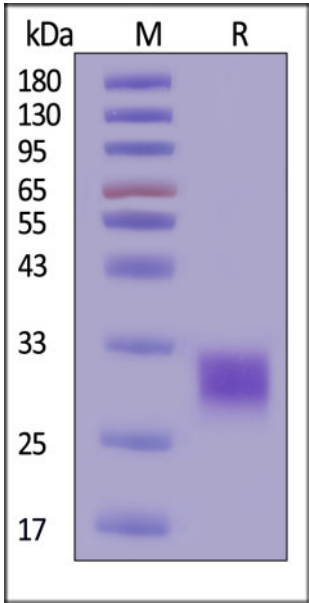
This product is stable after storage at:

- -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

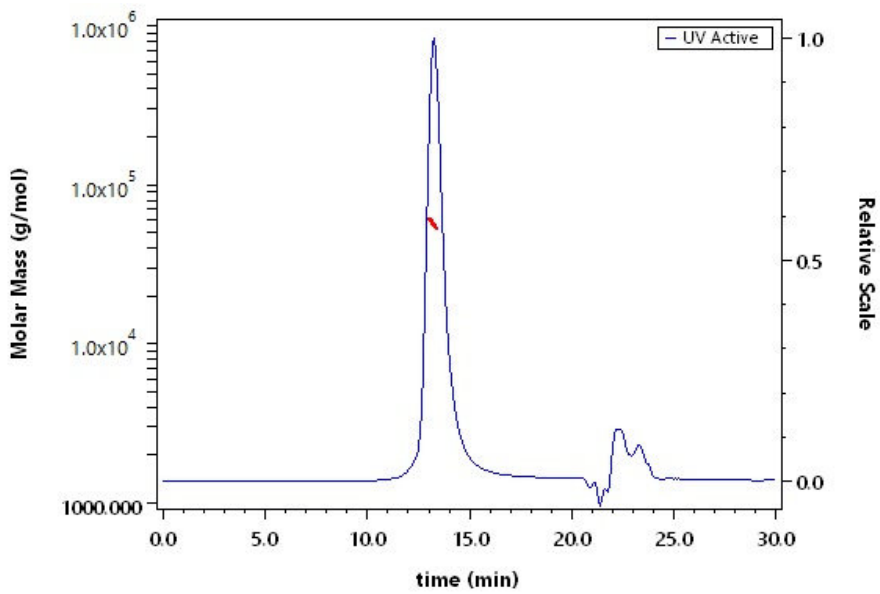
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



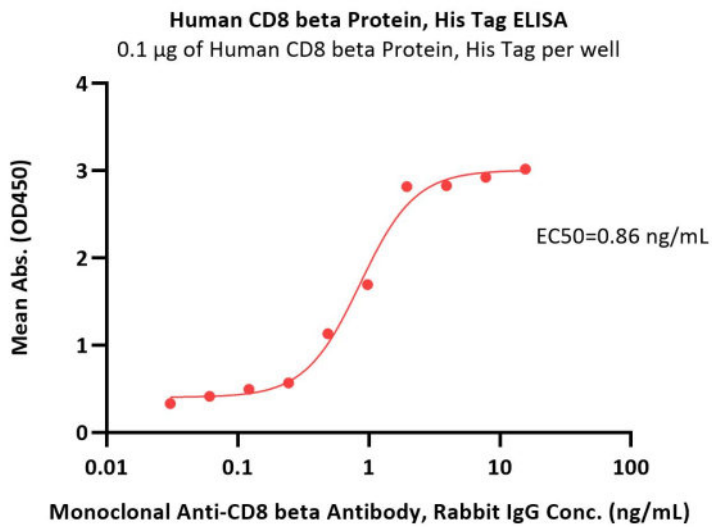
Human CD8 beta Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human CD8 beta Protein, His Tag (Cat. No. CD8-H52H5) is more than 90% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.

Activity-ELISA



Immobilized Human CD8 beta Protein, His Tag (Cat. No. CD8-H52H5) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-CD8 beta Antibody, Rabbit IgG with a linear range of 0.03-2 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.



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