

Mouse CD8 alpha&beta (CD8A&CD8B) Heterodimer Protein, His Tag&Tag Free (MALS verified)

Catalog # CDA-M52W3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

CD8 alpha & beta, CD8A & CD8B

Source

Mouse CD8A&CD8B Heterodimer Protein, His Tag&Tag Free (CDA-M52W3) is expressed from human 293 cells (HEK293). It contains AA Lys 28 - Tyr 196 & Leu 22 - Thr 175 (Accession # [P01731-1](#) & [P10300](#)).

Predicted N-terminus: Lys 28 & Leu 22

Molecular Characterization

| | |
|-------------------------------------|----------|
| CD8A (Lys 28 - Tyr 196) P01731-1 | Poly-his |
| CD8B (Leu 22 - Thr 175) P10300 | |

Mouse CD8A&CD8B Heterodimer Protein, His Tag&Tag Free, produced by co-expression of CD8 alpha and CD8 beta, has a calculated MW of 24.9 kDa (CD8 alpha) and 21.9 kDa (CD8 beta). Subunit CD8 alpha is fused with with a polyhistidine tag at the C-terminus and subunit CD8 beta contains no tag. The protein migrates as 30-33 kDa and 39-42 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 heterodimer.

Endotoxin

Less than 1.0 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, 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.

Storage

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

Please avoid repeated freeze-thaw cycles.

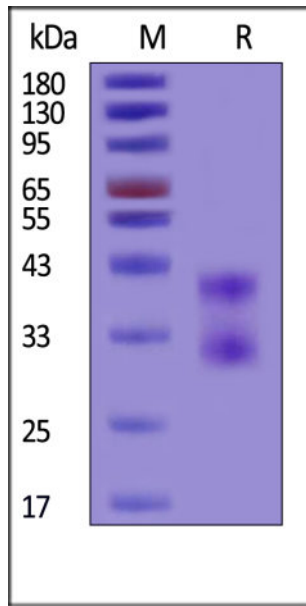
This product is stable after storage at:

- -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

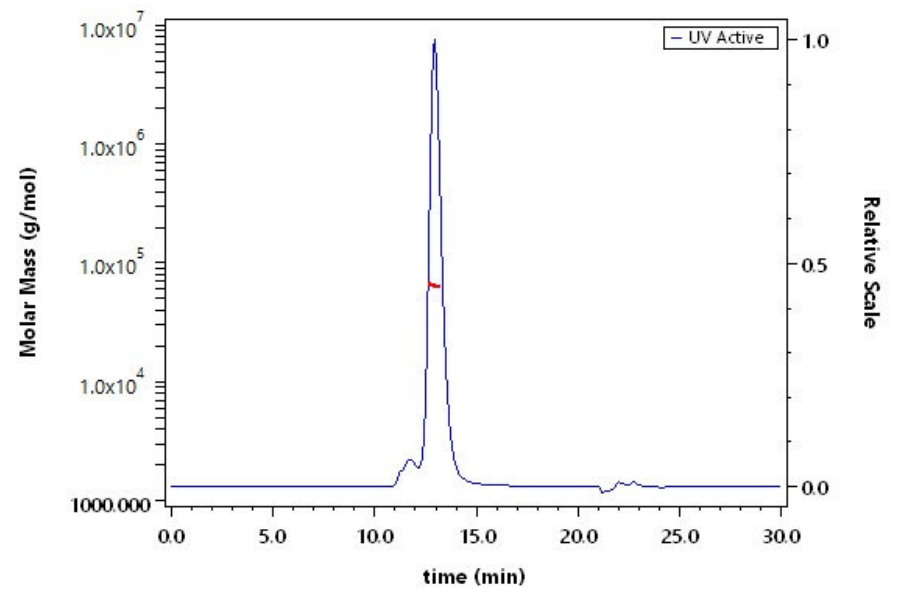
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Mouse CD8A&CD8B Heterodimer Protein, His Tag&Tag Free 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 Mouse CD8A&CD8B Heterodimer Protein, His Tag&Tag Free (Cat. No. CDA-M52W3) is more than 90% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

Background

The CD8 $\alpha\beta$ heterodimer is a key cell surface co-receptor on cytotoxic T lymphocytes. It binds to MHC class I molecules on antigen-presenting cells, stabilizing the interaction between the T-cell receptor (TCR) and the peptide-MHC complex. This binding is essential for T-cell activation, positive selection in the thymus, and the effector function of mature CD8⁺ T cells. The β -chain (CD8 β) modulates the affinity of the interaction, contributes to signal transduction, and promotes the stable surface expression of the heterodimer.

Discounts, Gifts,
and more!



www.acrobiosystems.com

