

Unconjugated Human HLA-A*01:01&B2M Monomer Protein (Peptide free, MALS verified)

Catalog # HLM-H53E3



BIOSYSTEMS
Acro

Synonym

HLA-A*0101 & B2M

Source

Unconjugated Human HLA-A*01:01&B2M Monomer Protein (HLM-H53E3) is expressed from CHO cells. It contains AA Gly 25 - Thr 305 (HLA-A*01:01) & Ile 21 - Met 119 (B2M) (Accession # [Q5SUL5](#) (HLA-A*01:01) & [P61769](#) (B2M)).

Predicted N-terminus: Ile 21

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™), and it is not biotinylated. The protein has a calculated MW of 48.9 kDa. The protein migrates as 48-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity

>90% 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.

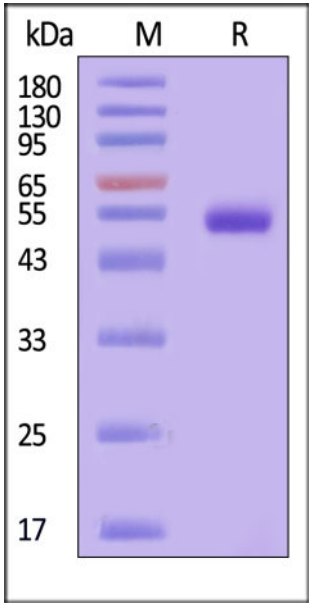
This product is stable after storage at:

- -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

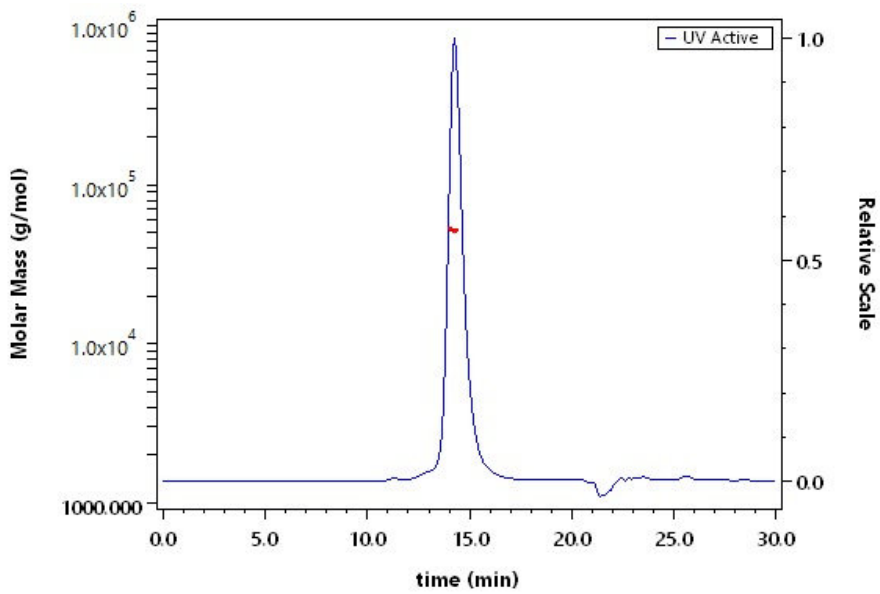
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



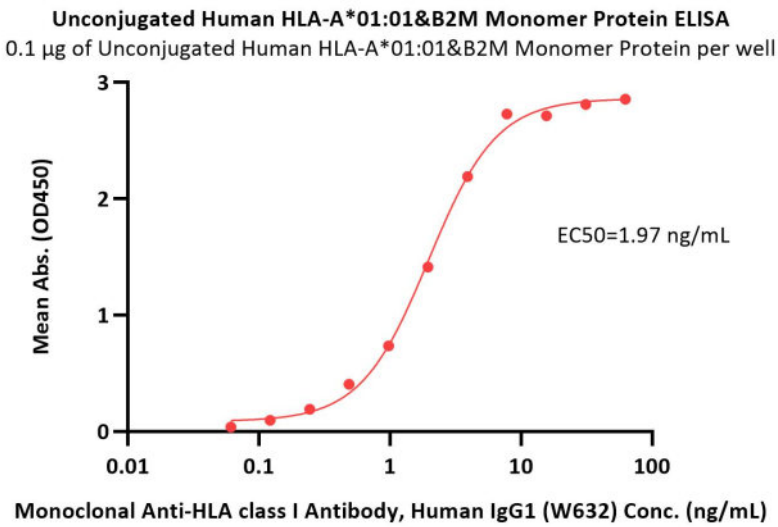
Unconjugated Human HLA-A*01:01&B2M Monomer Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

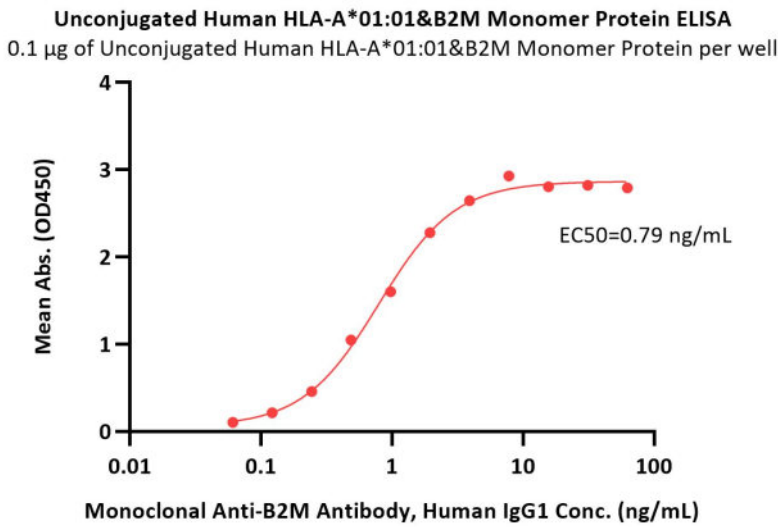


The purity of Unconjugated Human HLA-A*01:01&B2M Monomer Protein (Cat. No. HLM-H53E3) is more than 90% and the molecular weight of this protein is around 48-68 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Unconjugated Human HLA-A*01:01&B2M Monomer Protein (Cat. No. HLM-H53E3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-HLA class I Antibody, Human IgG1 (W632) with a linear range of 0.06-4 ng/mL (QC tested).



Immobilized Unconjugated Human HLA-A*01:01&B2M Monomer Protein (Cat. No. HLM-H53E3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-4 ng/mL (Routinely tested).



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