

# Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein (Monomer, MALS verified)

Catalog # HLE-H82E8



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

HLA-A\*0201 & B2M & PRAME (SLLQHLIGL)

## Source

Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein (HLE-H82E8) is expressed from human 293 cells (HEK293). It contains AA Ile 21 - Met 119 (B2M) & Gly 25 - Ile 308 (HLA-A\*02:01) & SLLQHLIGL peptide (Accession # [P61769](#) (B2M) & [AAA59606.1](#) (HLA-A\*02:01) & SLLQHLIGL).

## Molecular Characterization

Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein is produced by co-expression of HLA and B2M loaded with PRAME peptide.

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 51.3 kDa. The protein migrates as 58-61 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

## Purity

>95% as determined by SDS-PAGE.

>95% 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.**

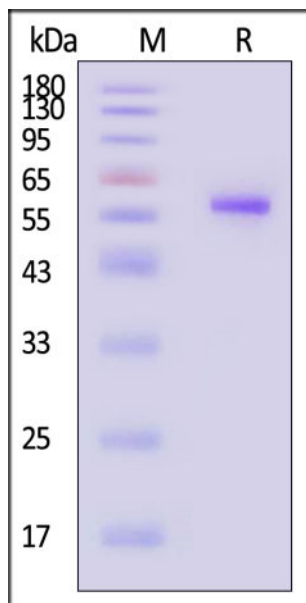
This product is stable after storage at:

- -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

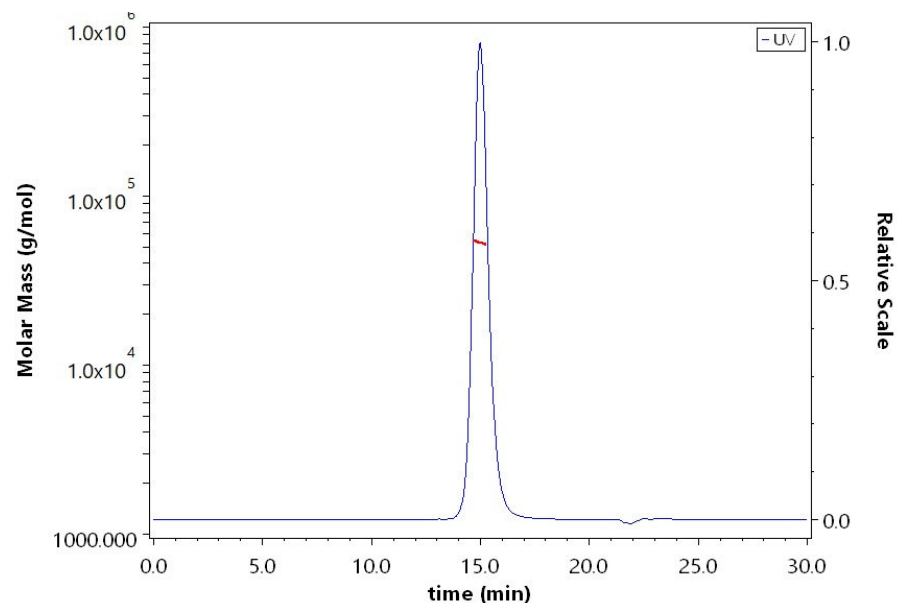
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein 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](#)).

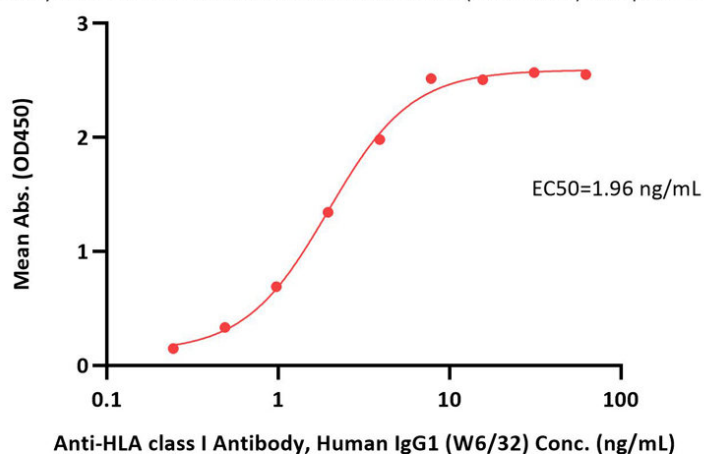
## SEC-MALS



The purity of Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein (Cat. No. HLE-H82E8) is more than 95% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.

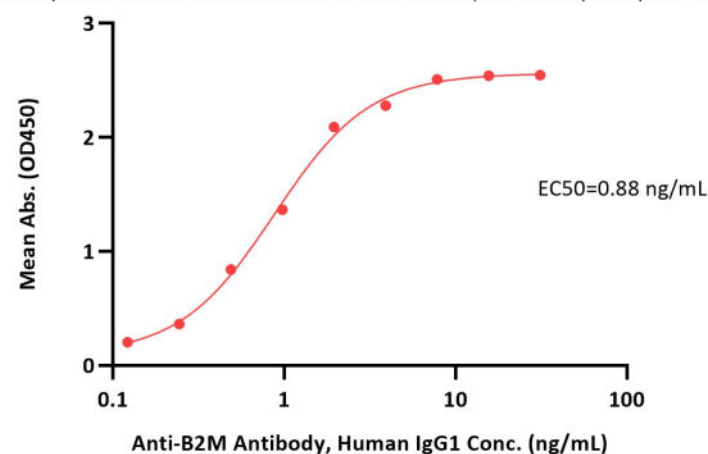
## Bioactivity-ELISA

**Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein ELISA**  
0.1 µg of Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein per well



Immobilized Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein (Cat. No. HLE-H82E8) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.2-4 ng/mL (QC tested).

**Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein ELISA**  
0.1 µg of Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein per well



Immobilized Biotinylated Human HLA-A\*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein (Cat. No. HLE-H82E8) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL (Routinely tested).

## Background

This gene encodes an antigen that is preferentially expressed in human melanomas and that is recognized by cytolytic T lymphocytes. It is not expressed in normal tissues, except testis. The encoded protein acts as a repressor of retinoic acid receptor, and likely confers a growth advantage to cancer cells via this function. Alternative splicing results in multiple transcript variants. The PRAME (SLLQHLIGL) was shown to be recognized by HLA-A\*0201 tumor-infiltrating lymphocytes from melanoma patients, and therefore it is widely been studied in TCR-T studies. The Human HLA-A\*0201 PRAME (SLLQHLIGL) complex protein is a complex of HLA-A\*0201 of the MHC Class I, B2M and PRAME (SLLQHLIGL) peptide.

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