

# PE-Labeled Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Tetramer Protein

Catalog # HLE-HP2E3



BIOSYSTEMS  
**Acro**

## Synonyms

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

## Source

PE-Labeled Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Tetramer Protein (HLE-HP2E3) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A\*02:01) & Ile 21 - Met 119 (B2M) & ALYVDSLFFL (Accession # [AAA59606.1](#) (HLA-A\*02:01) & [P61769-1](#) (B2M) & ALYVDSLFFL).

Predicted N-terminus: Gly 25 & Ile 21

## Molecular Characterization

PE-Labeled Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Tetramer Protein is assembled by biotinylated monomer and PE-labeled streptavidin.

Biotinylated Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Complex Protein is produced by co-expression of HLA and B2M loaded with PRAME peptide. Biotinylated Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 50-150 mM NaCl 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.**

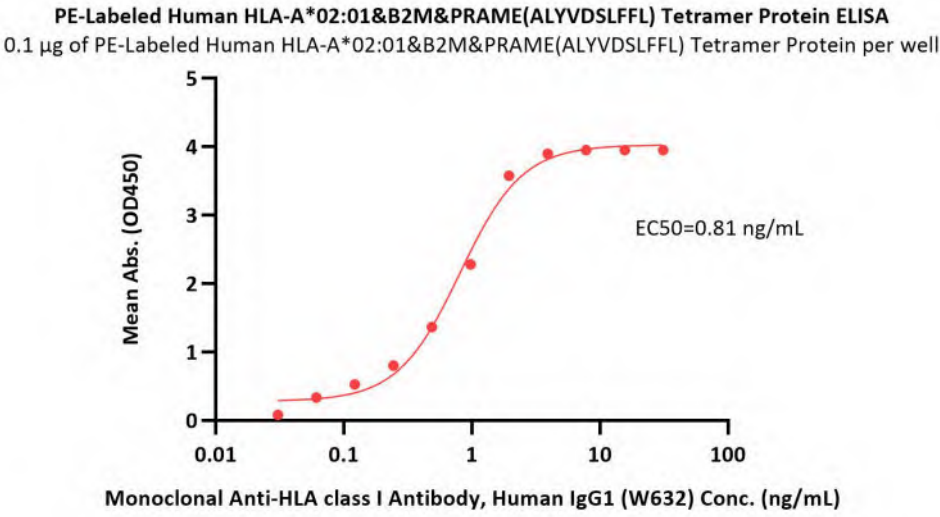
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

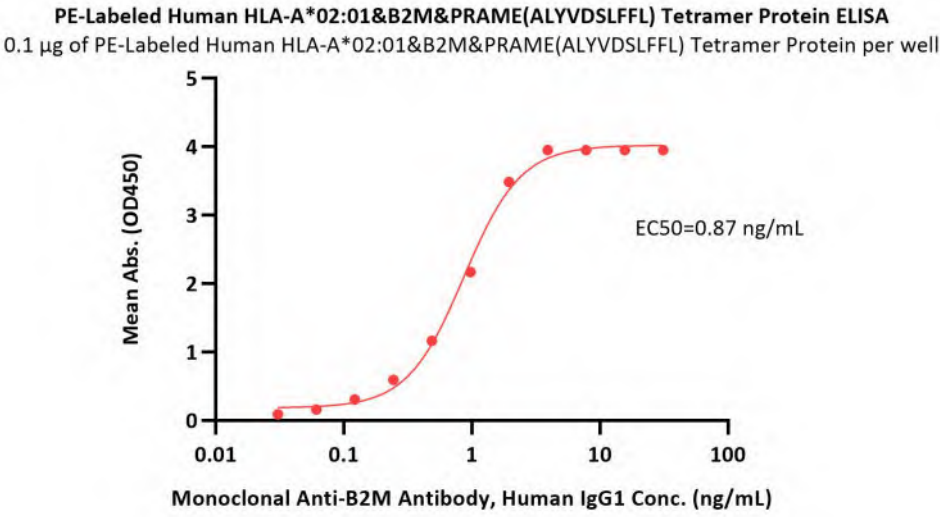
## ACRO Quality Management System

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

## Bioactivity-ELISA



Immobilized PE-Labeled Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Tetramer Protein (Cat. No. HLE-HP2E3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-HLA class I Antibody, Human IgG1 (W632) with a linear range of 0.03-2 ng/mL (QC tested).



Immobilized PE-Labeled Human HLA-A\*02:01&B2M&PRAME (ALYVDSLFFL) Tetramer Protein (Cat. No. HLE-HP2E3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-B2M Antibody, Human IgG1 with a linear range of 0.03-2 ng/mL (QC tested).

## Background

PRAME (Preferentially Expressed Antigen in Melanoma) is a well-characterized member of the cancer/testis antigen family. Functioning as a nuclear receptor and transcriptional regulator, PRAME negatively modulates retinoic acid signaling, thereby regulating tumor cell differentiation and proliferation. It is aberrantly overexpressed in a variety of malignancies, especially cutaneous melanoma, and its upregulation is closely linked to aggressive tumor phenotypes. Given its tumor-specific expression and oncogenic role, PRAME has emerged as a promising diagnostic biomarker, prognostic indicator, and attractive therapeutic target for tumor immunotherapy.



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