

# APC-Labeled Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Tetramer Protein

Catalog # HL1-HA2H4



## Synonym

HLA-A\*0201 & B2M & NY-ESO-1 (SLLMWITQCFL)

## Source

APC-Labeled Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Tetramer Protein (HL1-HA2H4) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A\*02:01) & Ile 21 - Met 119 (B2M) & SLLMWITQCFL peptide (Accession # [AAA59606.1](#) (HLA-A\*02:01) & [P61769-1](#) (B2M) & SLLMWITQCFL).  
Predicted N-terminus: Gly 25 & Ile 21

## Molecular Characterization

APC-Labeled Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Tetramer Protein is assembled by biotinylated monomer and APC-labeled streptavidin.  
Biotinylated Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Complex Protein is produced by co-expression of HLA and B2M loaded with NY-ESO-1 peptide. Biotinylated Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

## Conjugate

APC  
Excitation Wavelength: 640 nm  
Emission Wavelength: 661 nm

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 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

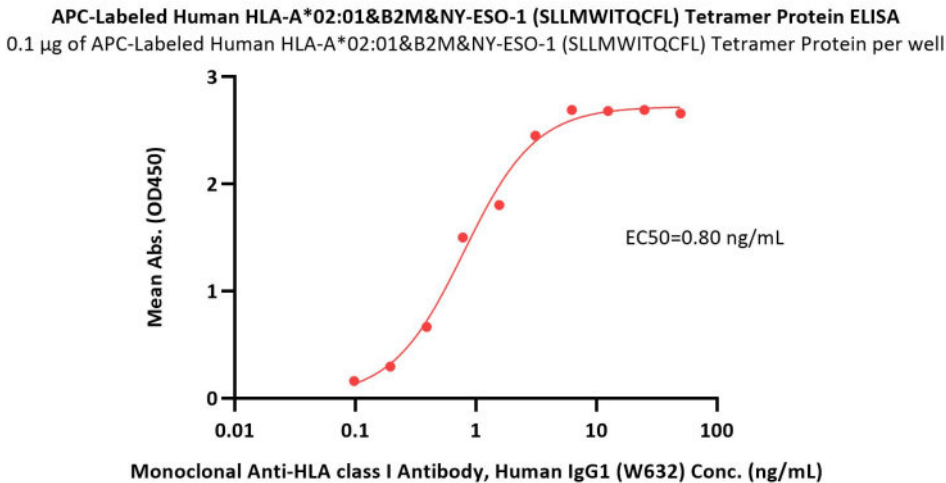
For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please protect from light and avoid repeated freeze-thaw cycles.**  
This product is stable after storage at:

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

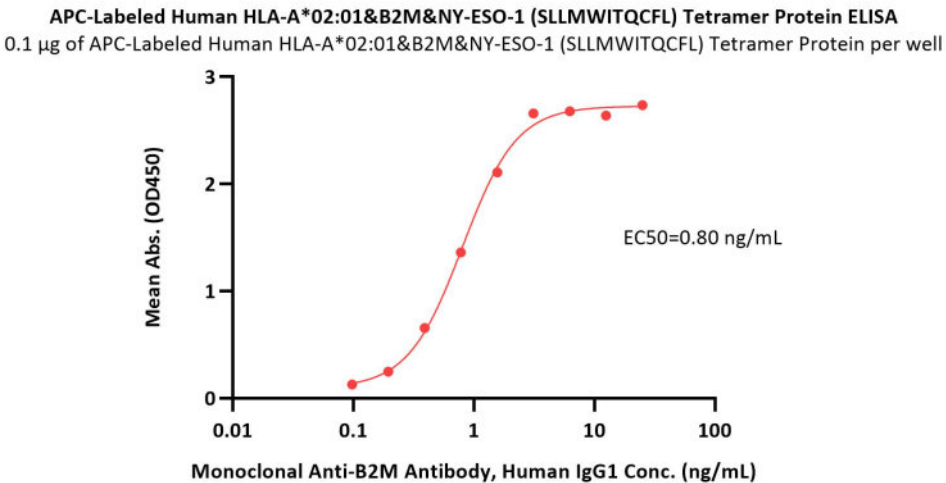
## ACRO Quality Management System

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

## Bioactivity-ELISA



Immobilized APC-Labeled Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Tetramer Protein (Cat. No. HL1-HA2H4) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-HLA class I Antibody, Human IgG1 (W632) with a linear range of 0.1-3 ng/mL (QC tested).



Immobilized APC-Labeled Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQCFL) Tetramer Protein (Cat. No. HL1-HA2H4) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-B2M Antibody, Human IgG1 with a linear range of 0.1-3 ng/mL (Routinely tested).

## Background

NY-ESO-1, which is also well-known as New York esophageal squamous cell carcinoma 1, is an efficient target for cancer immunotherapy. This antigen is a member of cancer-testis antigens (CTAs) and is highly expressed in various cancers, including melanoma, ovarian, cervical cancer, etc. Adoptive T cell therapy with HLA-A2 restricted NY-ESO-1 transduced CD8+ T cells has improved the clinical response rates and overall survival of treatment-refractory melanoma patients. The Human HLA-A\*0201 NY-ESO-1 (SLLMWITQCFL) complex protein is a complex of HLA-A\*0201 of the MHC Class I, B2M and SLLMWITQCFL peptide of the NY-ESO-1.

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