

Synonym

HLA-A*0201 & B2M & HPV16-E7 (YMLDLQPET)

Source

PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein(HL7-HP2H7) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*02:01) & Ile 21 - Met 119 (B2M) & YMLDLQPET peptide (Accession # [AAA59606.1](#) (HLA-A*02:01) & [P61769-1](#) (B2M) & YMLDLQPET).
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein is assembled by biotinylated monomer and PE-labeled streptavidin.
Biotinylated Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Complex Protein is produced by co-expression of HLA and B2M loaded with HPV16-E7 peptide. Biotinylated Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) 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

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μm filtered solution in PBS, 1% BSA, pH7.4 with trehalose as protectant.
Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

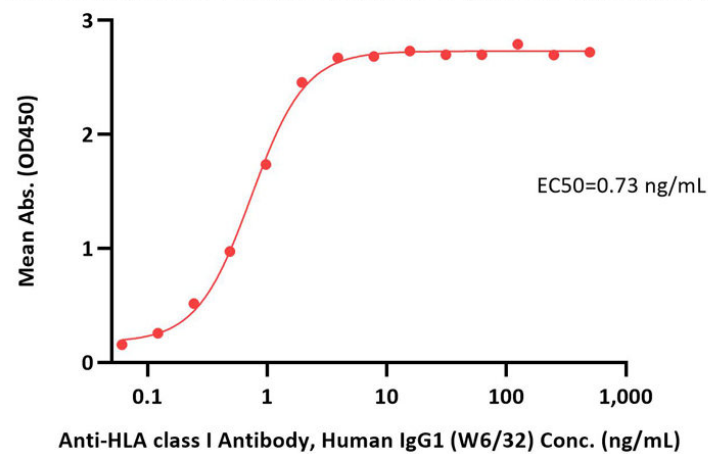
Storage

Please protect from light and avoid repeated freeze-thaw cycles.

- This product is stable after storage at:
- The product MUST be stored at -70°C or lower upon receipt;
 - -70°C for 3 months under sterile conditions.

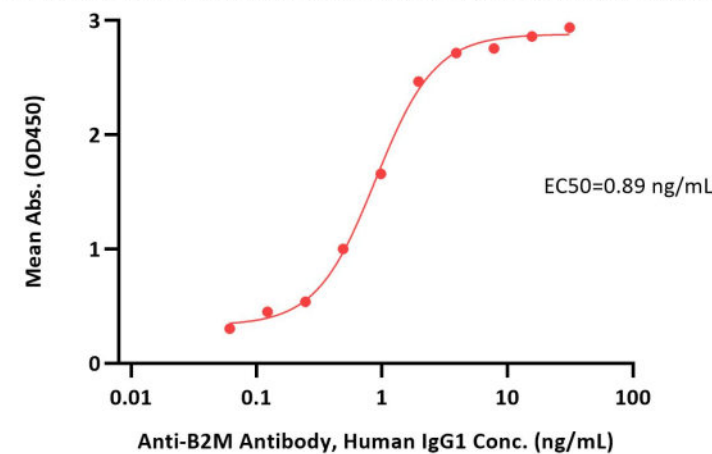
Bioactivity-ELISA

PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein ELISA
0.1 μg of PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein per well



Immobilized PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein (Cat. No. HL7-HP2H7) at 1 μg/mL (100 μL/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.1-2 ng/mL (QC tested).

PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein ELISA
0.1 μg of PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein per well



Immobilized PE-Labeled Human HLA-A*02:01&B2M&HPV16-E7 (YMLDLQPET) Tetramer Protein (Cat. No. HL7-HP2H7) at 1 μg/mL (100 μL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (Routinely tested).





Background

Human papillomavirus (HPV) is A kind of papillomavirus belonging to the milk polypoid virus family. It is a spherical DNA virus, which can cause the proliferation of squamous epithelium of human skin mucosa. HPV(human papillomavirus) for common warts, genital warts (condyloma acuminatum), and other symptoms. There are many types of human papillomavirus (HPV), with HPV 16 and 18 being high-risk types known to significantly increase the risk of cervical, vaginal and vulvar cancers in women and men. The PE-labeled human HLA-A*0201 HPV (YMLDLQPET) tetramer protein is a complex of HLA-A*0201 of the MHC Class I, B2M, and YMLDLQPET peptide of the HPV.

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and more!

