

PE-Labeled Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) Tetramer Protein

Catalog # HL7-HP2H4



Synonym

HLA-A*1101 & B2M & HPV16-E7 (IVCPICSQK)

Source

PE-Labeled Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) Tetramer Protein(HL7-HP2H4) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*11:01) & Ile 21 - Met 119 (B2M) & IVCPICSQK peptide (Accession # [Q5S3G3-1](#) (HLA-A*11:01) & [P61769](#) (B2M) & IVCPICSQK).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) Tetramer Protein is assembled by biotinylated monomer and PE-labeled streptavidin.

Biotinylated Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) Complex Protein is produced by co-expression of HLA and B2M loaded with HPV16-E7 peptide. Biotinylated Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) 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

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

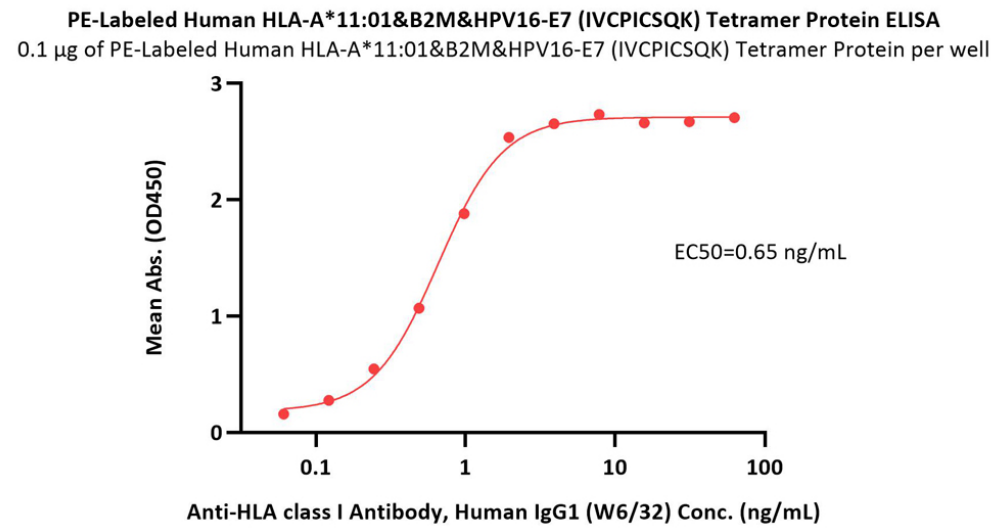
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

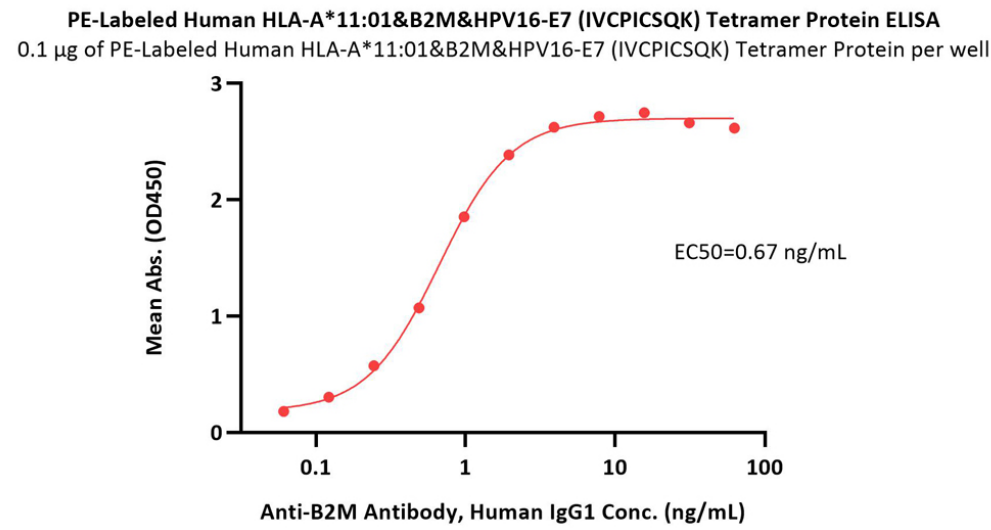
This product is stable after storage at:

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

Bioactivity-ELISA



Immobilized PE-Labeled Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) Tetramer Protein (Cat. No. HL7-HP2H4) 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).



Immobilized PE-Labeled Human HLA-A*11:01&B2M&HPV16-E7 (IVCPICSQK) Tetramer Protein (Cat. No. HL7-HP2H4) at 1 µg/mL (100 µL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.1-2 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*1101 HPV (IVCPICSQK) tetramer protein is a complex of HLA-A*1101 of the MHC Class I, B2M, and IVCPICSQK peptide of the HPV.

