



Source

PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein(HLH-HP2H6) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*02:01) & Ile 21 - Met 119 (B2M) & SLYNTVATL peptide (Accession # [AAA59606.1](#) (HLA-A*02:01) & [P61769-1](#) (B2M) & SLYNTVATL).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein is assembled by biotinylated monomer (HLH-H82E8) and PE-labeled streptavidin.

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

Endotoxin

Less than 1.0 EU per µg by the LAL method.

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.

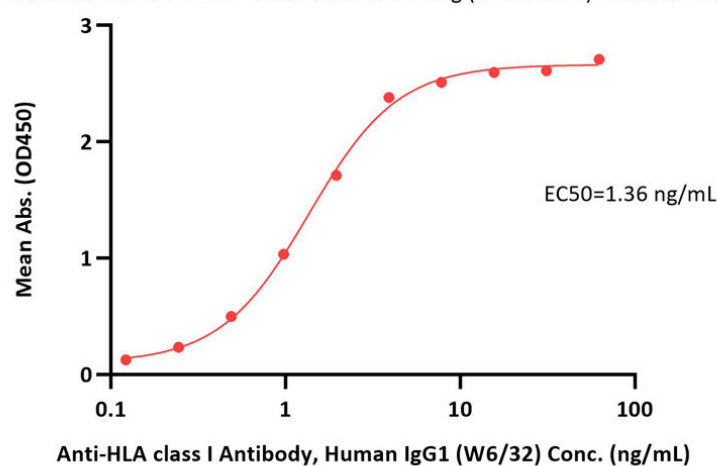
Please protect from light and avoid repeated freeze-thaw cycles.

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.

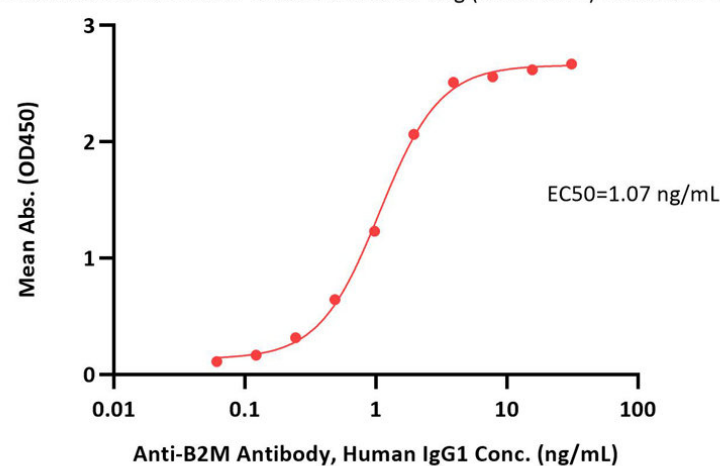
Bioactivity-ELISA

PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein ELISA
0.1 µg of PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein per well



Immobilized PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein (Cat. No. HLH-HP2H6) 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&HIV Gag (SLYNTVATL) Tetramer Protein ELISA
0.1 µg of PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein per well



Immobilized PE-Labeled Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Tetramer Protein (Cat. No. HLH-HP2H6) 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).

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Background

HIV (human immunodeficiency virus) is a virus that attacks the body's immune system. If HIV is not treated, it can lead to AIDS (acquired immunodeficiency syndrome). It can be transmitted via the exchange of a variety of body fluids from infected people, such as blood, breast milk, semen and vaginal secretions, And from a mother to her child during pregnancy and delivery. This disease can be managed by treatment regimens composed of a combination of antiretroviral (ARV) drugs. The Human HLA-A*0201 HIV (SLYNTVATL) complex protein is a complex of HLA-A*0201 of the MHC Class I, B2M, and SLYNTVATL peptide of the HIV.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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