

PE-Labeled Human HLA-A*03:01&B2M Tetramer Protein (Peptide free)

Catalog # HLM-HP2H6



Synonym

HLA-A*0301 & B2M

Source

PE-Labeled Human HLA-A*03:01&B2M Tetramer Protein(HLM-HP2H6) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*03:01) & Ile 21 - Met 119 (B2M) (Accession # [P04439-1](#) (HLA-A*03:01) & [P61769](#) (B2M)).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A*03:01&B2M Tetramer Protein is assembled by biotinylated monomer (HLM-H82Ey) and PE-labeled streptavidin.

Biotinylated Human HLA-A*03:01&B2M Monomer Protein is produced by co-expression of HLA and B2M. This 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, 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

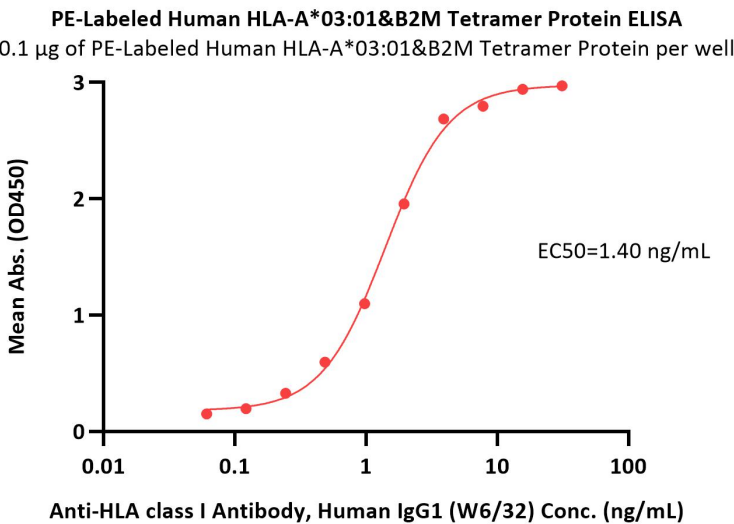
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

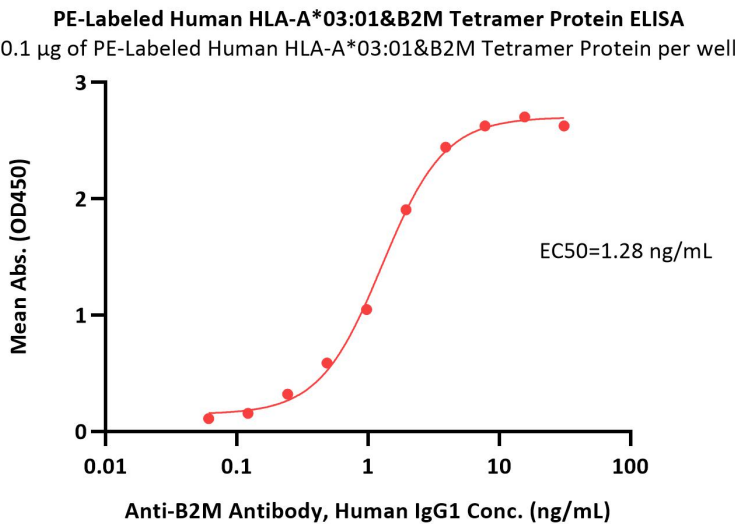
This product is stable after storage at:

- 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*03:01&B2M Tetramer Protein (Cat. No. HLM-HP2H6) at 1 µg/mL (100 µL/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.06-4 ng/mL (QC tested).



Immobilized PE-Labeled Human HLA-A*03:01&B2M Tetramer Protein (Cat. No. HLM-HP2H6) 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



PE-Labeled Human HLA-A*03:01&B2M Tetramer Protein (Peptide free)

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Major histocompatibility complex (MHC), group of genes that code for proteins found on the surfaces of cells that help the immune system recognize foreign substances. MHC proteins are found in all higher vertebrates. In human beings the complex is also called the human leukocyte antigen (HLA) system.

