PE-Labeled Human HLA-A*02:01&B2M&PAP (ALDVYNGLL) Tetramer Protein

Catalog # HLP-HP2Hb

Synonym

HLA-A*0201 & B2M & PAP (ALDVYNGLL)

Source

PE-Labeled Human HLA-A*02:01&B2M&PAP (ALDVYNGLL) Tetramer Protein(HLP-HP2Hb) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*02:01) & Ile 21 - Met 119 (B2M) & ALDVYNGLL peptide (Accession # AAA59606.1 (HLA-A*02:01) & P61769-1 (B2M) & ALDVYNGLL).
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A*02:01&B2M&PAP (ALDVYNGLL) Tetramer Protein is assembled by biotinylated monomer and PE-labeled streptavidin.

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

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.

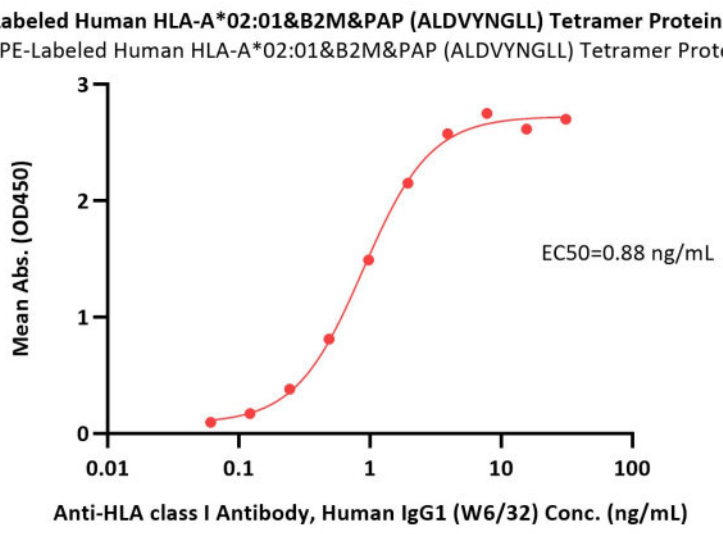
Storage

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

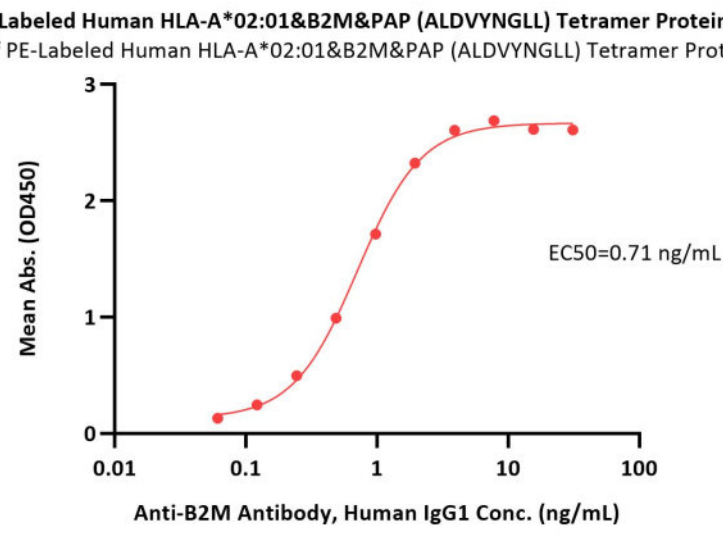
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

Bioactivity-ELISA



Immobilized PE-Labeled Human HLA-A*02:01&B2M&PAP (ALDVYNGLL) Tetramer Protein (Cat. No. HLP-HP2Hb) 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*02:01&B2M&PAP (ALDVYNGLL) Tetramer Protein (Cat. No. HLP-HP2Hb) at 1 μg/mL (100 μL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.1-1 ng/mL (Routinely tested).

Background

Tyrosine phosphatase that acts as a tumor suppressor of prostate cancer through dephosphorylation of ERBB2 and deactivation of MAPK-mediated signaling.In addition to its tyrosine phosphatase activity has ecto-5'-nucleotidase activity in dorsal root ganglion (DRG) neurons. Generates adenosine from AMP which acts as a pain suppressor

Clinical and Translational Updates

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