



Synonym

HLA-A*0201 & B2M & AFP (FMNKFIYEI)

Source

PE-Labeled Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer Protein(HLA-HP2H5) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*02:01) & Ile 21 - Met 119 (B2M) & FMNKFIYEI peptide (Accession # [AAA59606.1](#) (HLA-A*02:01) & [P61769](#) (B2M) & FMNKFIYEI).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer Protein is assembled by biotinylated monomer (HLA-H82E3) and PE-labeled streptavidin.

Biotinylated Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Complex Protein is produced by co-expression of HLA and B2M loaded with AFP peptide. Biotinylated Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (AvitagTM).

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Formulation

Supplied as 0.2 μ m 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.

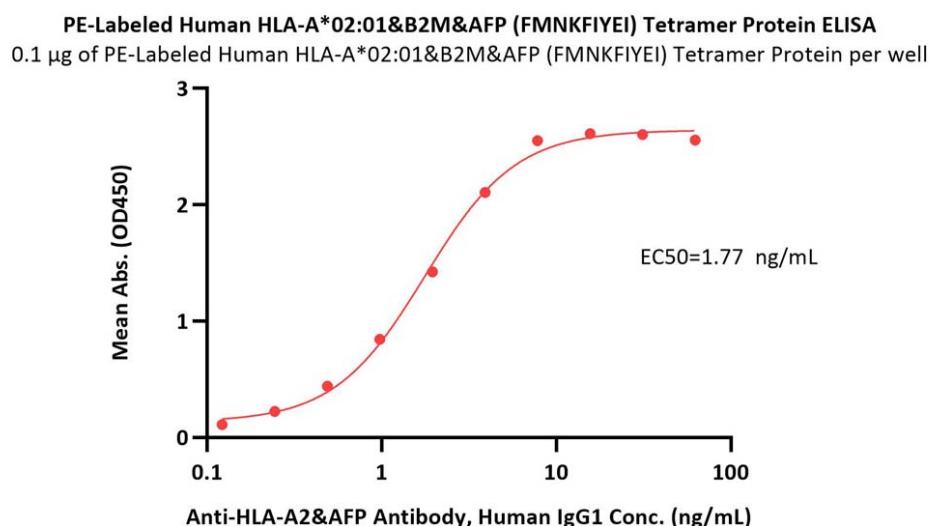
Storage

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&AFP (FMNKFIYEI) Tetramer Protein (Cat. No. HLA-HP2H5) at 1 μ g/mL (100 μ L/well) can bind Anti-HLA-A2&AFP Antibody, Human IgG1 with a linear range of 0.1-4 ng/mL (QC tested).

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Background

Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms and binds copper, nickel, fatty acids, and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly. The Human HLA-A*0201 AFP (FMNKFIYEI) complex protein is a complex of HLA-A*0201 of the MHC Class I, B2M, and FMNKFIYEI peptide of the AFP.

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