



Synonym

HLA-A\*0201 & B2M & CMV pp65 (NLVPMVATV)

Source

PE-Labeled Human HLA-A\*02:01&B2M&CMV pp65 (NLVPMVATV) Tetramer Protein(HLC-HP2H6) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A\*02:01) & Ile 21 - Met 119 (B2M) & NLVPMVATV peptide (Accession # [AAA59606.1](#) (HLA-A\*02:01) & [P61769](#) (B2M) & NLVPMVATV).  
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

PE-Labeled Human HLA-A\*02:01&B2M&CMV pp65 (NLVPMVATV) Tetramer Protein is assembled by biotinylated monomer (HLC-H82E5) and PE-labeled streptavidin.  
  
Biotinylated Human HLA-A\*02:01&B2M&CMV pp65 (NLVPMVATV) Complex Protein is produced by co-expression of HLA and B2M loaded with CMV pp65 peptide. Biotinylated Human HLA-A\*02:01&B2M&CMV pp65 (NLVPMVATV) 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

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.

Background

Cytomegalovirus (Cytomegalovirus) is a herpes viral DNA virus. Human cytomegalovirus (HCMV) can only infect humans and multiply in humans. The antibodies. After primary infection with CMV, the body can produce specific antibodies and killer T lymphocytes to activate NM cells. The antibody has limited CMV replication ability and has a certain resistance to reinfection of the same strain, but cannot resist the activation of antibody-dependent virus and the exogenous infection of other different strains of CMV. However, specific killer T lymphocytes and antibody-dependent cytotoxic cells can exert the greatest antiviral effect. The Human HLA-A\*0201 CMV (NLVPMVATV) complex protein is a complex of HLA-A\*0201 of the MHC Class I, B2M, and NLVPMVATV peptide of the CMV.

Clinical and Translational Updates

