



## Source

PE-Labeled Human HLA-A\*02:01&B2M&EBV LMP1 (YLLEMLWRL) Tetramer Protein(HLP-HP2Hd) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A\*02:01) & Ile 21 - Met 119 (B2M) & YLLEMLWRL peptide (Accession # [AAA59606.1](#) (HLA-A\*02:01) & [P61769-1](#) (B2M) & YLLEMLWRL).

Predicted N-terminus: Gly 25 & Ile 21

## Molecular Characterization

PE-Labeled Human HLA-A\*02:01&B2M&EBV LMP1 (YLLEMLWRL) Tetramer Protein is assembled by biotinylated monomer (HLP-H82Ec) and PE-labeled streptavidin.

Biotinylated Human HLA-A\*02:01&B2M&EBV LMP1 (YLLEMLWRL) Complex Protein is produced by co-expression of HLA and B2M loaded with EBV LMP1 peptide. Biotinylated Human HLA-A\*02:01&B2M&EBV LMP1 (YLLEMLWRL) 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.

## Background

Epstein-Bar Virus (EBV), also known as human herpesvirus 4, belongs to gamma herpes virus family and is a very common human virus worldwide. EBV causes infectious mononucleosis (IM) and also associates to some specific types of cancers such as Burkitt's lymphoma (BL) and gastric carcinoma (GC). Glycoprotein B (gB) plays an important role in viral entry by binding with  $\alpha\beta6/\alpha\beta8$  integrins to trigger the membrane fusion and entry process of epithelial cells, which makes it become an great target for EBV research. Epstein-Bar Virus (EBV), also known as human herpesvirus 4, belongs to gamma herpes virus family and is a very common human virus worldwide. EBV causes infectious mononucleosis (IM) and also associates to some specific types of cancers such as Burkitt's lymphoma (BL) and gastric carcinoma (GC). Glycoprotein B (gB) plays an important role in viral entry by binding with  $\alpha\beta6/\alpha\beta8$  integrins to trigger the membrane fusion and entry process of epithelial cells, which makes it become an great target for EBV research. The Human HLA-A\*0201 EBV LMP1 (YLLEMLWRL) complex protein is a complex of HLA-A\*0201 of the MHC Class I, B2M and YLLEMLWRL peptide of the EBV LMP1.

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