



**Synonym**

HLA-E\*0103 & B2M & CMV UL40 (VMAPRTVLL)

**Source**

PE-Labeled Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Tetramer Protein(HLU-HP2H5) is expressed from human 293 cells (HEK293). It contains AA Gly 22 - Ile 305 (HLA-E\*01:03) & Ile 21 - Met 119 (B2M) & VMAPRTVLL peptide (Accession # [P13747](#) (HLA-E\*01:03) & [P61769-1](#) (B2M) & VMAPRTVLL).

Predicted N-terminus: Gly 22 & Val

**Molecular Characterization**

PE-Labeled Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Tetramer Protein is assembled by biotinylated monomer (HL0-H82E7) and PE-labeled streptavidin.

Biotinylated Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Complex Protein is produced by co-expression of HLA and B2M loaded with CMV UL40 peptide. Biotinylated Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) 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.

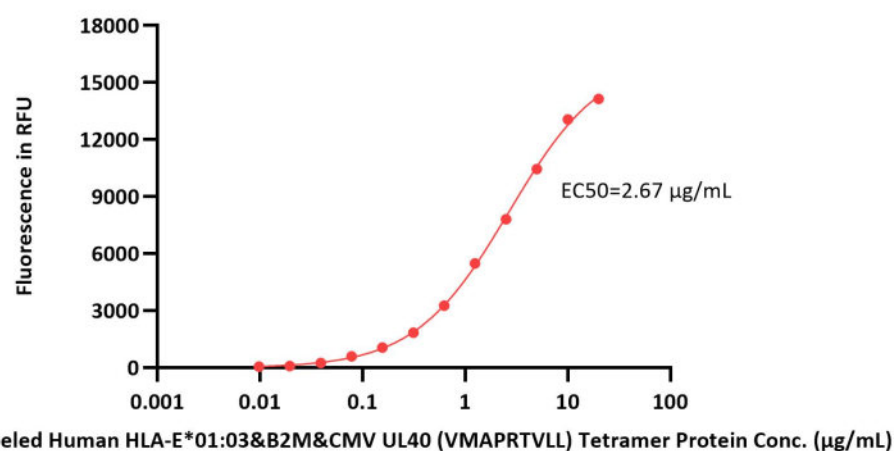
*Please protect from light and avoid repeated freeze-thaw cycles.*

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.

**Bioactivity-ELISA**

PE-Labeled Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Tetramer Protein ELISA  
0.5 µg of Human NKG2C&CD94, Fc Tag per well



Immobilized Human NKG2C&CD94, Fc Tag (Cat. No. NC4-H5258) at 5 µg/mL (100 µL/well) can bind PE-Labeled Human HLA-

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# PE-Labeled Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Tetramer Protein

Catalog # HLU-HP2H5



BIOSYSTEMS  
**Acro**

E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Tetramer Protein (Cat. No. HLU-HP2H5) with a linear range of 0.01-5 µg/mL (QC tested).

## Background

HLA-E belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA-E binds a restricted subset of peptides derived from the leader peptides of other class I molecules. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail.

## Clinical and Translational Updates

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