Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein (Monomer, MALS verified)

Catalog # HLC-H82E8

Source

Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein(HLC-H82E8) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*02:01) & Ile 21 - Met 119 (B2M) & LLDFVRFMGV peptide (Accession # AAA59606.1 (HLA-A*02:01) & P61769-1 (B2M) & LLDFVRFMGV).
Predicted N-terminus: Gly 25 & Leu

Molecular Characterization

Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein is produced by co-expression of HLA and B2M loaded with EBV EBNA3C peptide.

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 36.3 kDa and 13.9 kDa. The protein migrates as 41-43 kDa and 12 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 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

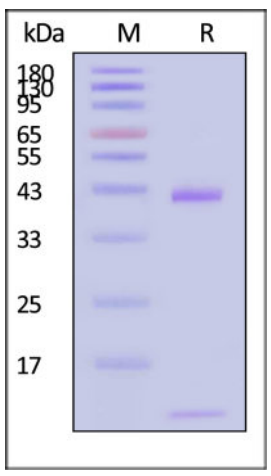
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

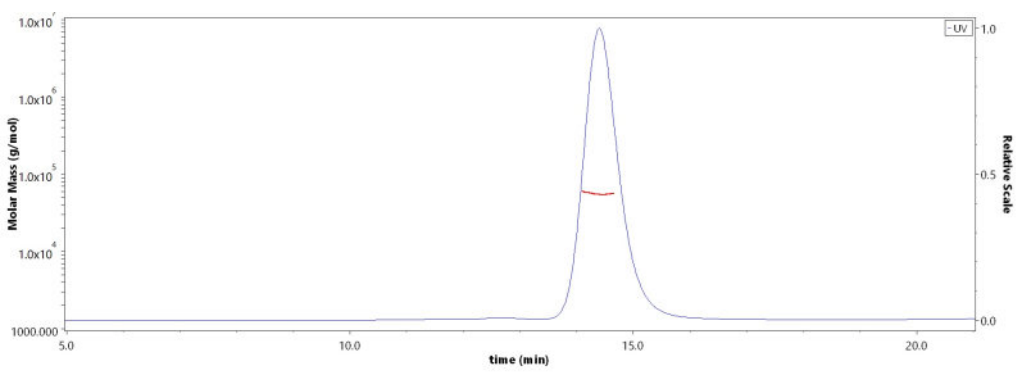
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

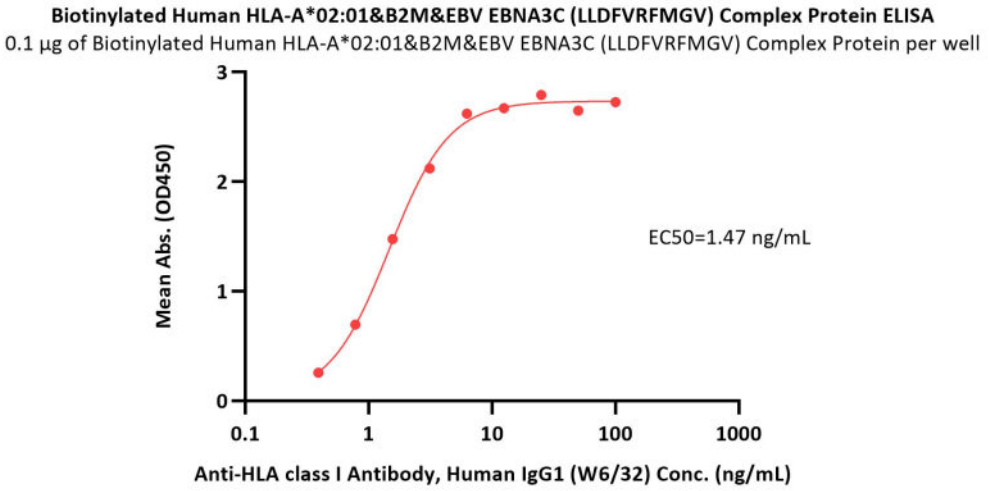
SEC-MALS



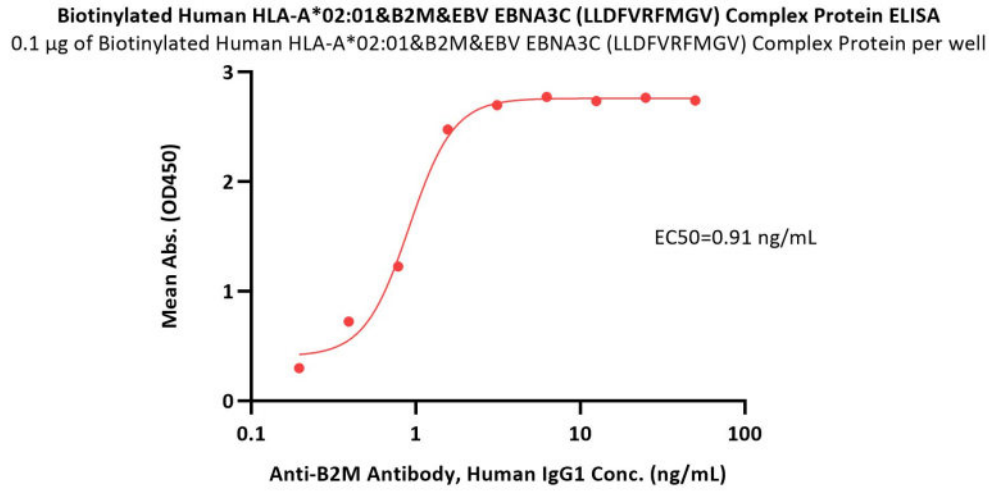
The purity of Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein (Cat. No. HLC-H82E8) is more than 90% and the molecular weight of this protein is around 48-65 kDa verified by SEC-MALS.
Report

Discounts, Gifts, and more!

Bioactivity-ELISA



Immobilized Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein (Cat. No. HLC-H82E8) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.4-3 ng/mL (QC tested).



Immobilized Biotinylated Human HLA-A*02:01&B2M&EBV EBNA3C (LLDFVRFMGV) Complex Protein (Cat. No. HLC-H82E8) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.2-2 ng/mL (Routinely tested).

Clinical and Translational Updates