Biotinylated Human HLA-A*11:01&B2M Monomer Protein (Peptide free, MALS verified)

Catalog # HLM-H82W5

Synonym

HLA-A*11:01 & B2M

Source

Biotinylated Human HLA-A*11:01&B2M Monomer Protein(HLM-H82W5) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*11:01) & Ile 21 - Met 119 (B2M) (Accession # AAV53343.1 (HLA-A*11:01) & P61769 (B2M)).
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

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

The protein has a calculated MW of 36.0 kDa and 11.7 kDa. The protein migrates as 42-45 kDa and 13 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.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>95% 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

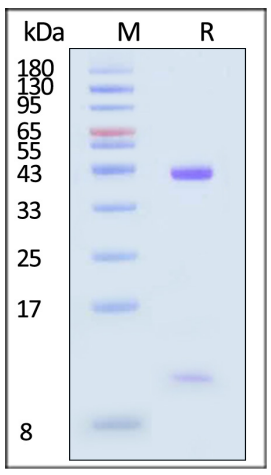
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

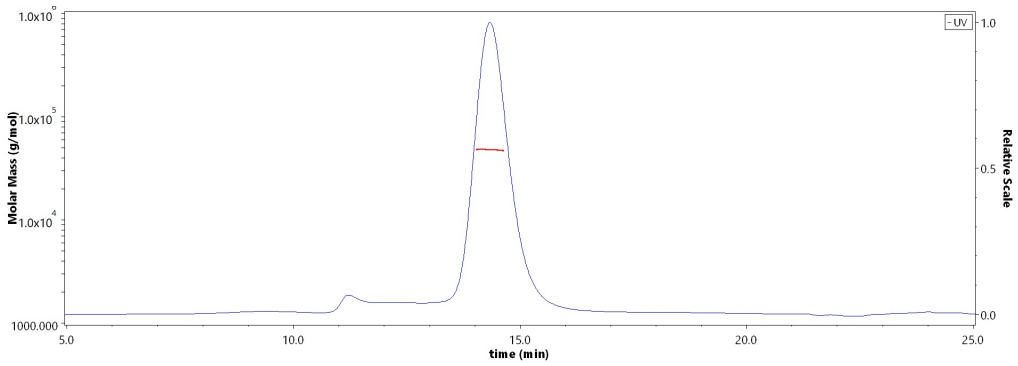
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human HLA-A*11:01&B2M Monomer Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS

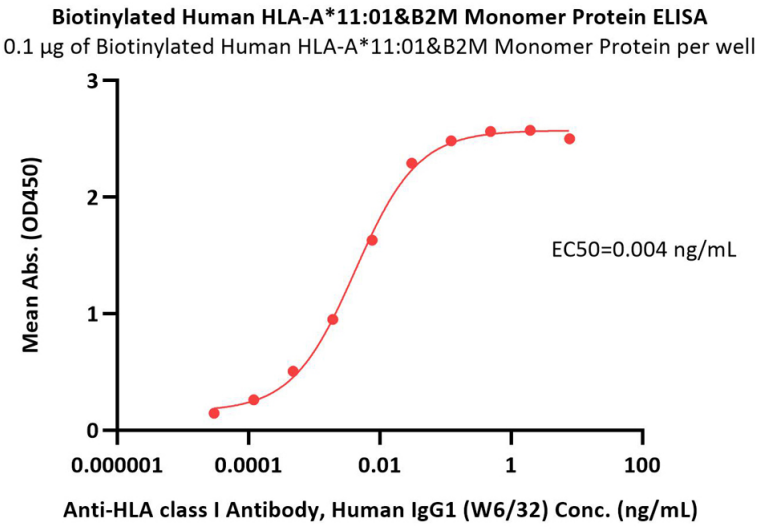


The purity of Biotinylated Human HLA-A*11:01&B2M Monomer Protein (Cat. No. HLM-H82W5) is more than 90% and the molecular weight of this protein is around 40-60 kDa verified by SEC-MALS.
Report

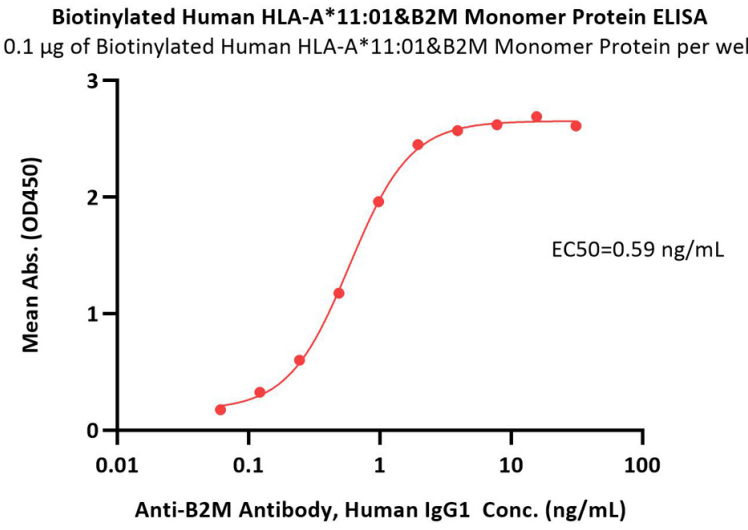
Bioactivity-ELISA

Biotinylated Human HLA-A*11:01&B2M Monomer Protein (Peptide free, MALS verified)

Catalog # HLM-H82W5



Immobilized Biotinylated Human HLA-A*11:01&B2M Monomer Protein (Cat. No. HLM-H82W5) 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 0.00003-0.008 ng/mL (QC tested).



Immobilized Biotinylated Human HLA-A*11:01&B2M Monomer Protein (Cat. No. HLM-H82W5) 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 0.1-2 ng/mL (Routinely tested).

Background

Human papillomavirus (HPV) is A kind of papillomavirus belonging to the milk polypoid virus family. It is a spherical DNA virus, which can cause the proliferation of squamous epithelium of human skin mucosa. HPV(human papillomavirus) for common warts, genital warts (condyloma acuminatum), and other symptoms. There are many types of human papillomavirus (HPV), with HPV 16 and 18 being high-risk types known to significantly increase the risk of cervical, vaginal and vulvar cancers in women and men. The PE-labeled human HLA-A*1101 HPV (IVCPICSQK) tetramer protein is a complex of HLA-A*1101 of the MHC Class I, B2M, and IVCPICSQK peptide of the HPV.