Biotinylated Human HLA-A*03:01&B2M Monomer Protein (Peptide free, MALS verified)

Catalog # HLM-H82Ey



Source

Biotinylated Human HLA-A*03:01&B2M Monomer Protein(HLM-H82Ey) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*03:01) & Ile 21 - Met 119 (B2M) (Accession # P04439 (HLA-A*03:01) & P61769 (B2M)).

Predicted N-terminus: Ile 21

Molecular Characterization

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

The protein has a calculated MW of 36.1 kDa and 11.7 kDa. The protein migrates as 40-45 kDa and 12 kDa when calibrated against <u>Star Ribbon Prestained Protein Marker</u> under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using AvitagTM 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.

Formulation

Lyophilized from $0.22~\mu m$ 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

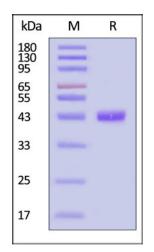
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

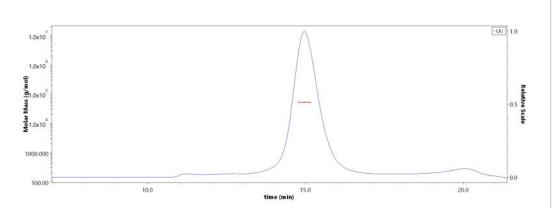
SDS-PAGE



Biotinylated Human HLA-A*03:01&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 90% (With <u>Star Ribbon Pre-stained Protein Marker</u>).

Bioactivity-ELISA

SEC-MALS



The purity of Biotinylated Human HLA-A*03:01&B2M Monomer Protein (Cat. No. HLM-H82Ey) is more than 85% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.

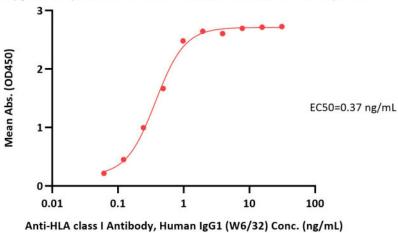
Report

Biotinylated Human HLA-A*03:01&B2M Monomer Protein (Peptide free, MALS verified)

Catalog # HLM-H82Ey



Biotinylated Human HLA-A*03:01&B2M Monomer Protein ELISA 0.1 μ g of Biotinylated Human HLA-A*03:01&B2M Monomer Protein per well



Immobilized Biotinylated Human HLA-A*03:01&B2M Monomer Protein (Cat. No. HLM-H82Ey) at 1 μ g/mL (100 μ L/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μ g/well) plate can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.06-2 ng/mL (QC tested).

Background

Major histocompatibility complex (MHC), group of genes that code for proteins found on the surfaces of cells that help the immune system recognize foreign substances. MHC proteins are found in all higher vertebrates. In human beings the complex is also called the human leukocyte antigen (HLA) system.

Clinical and Translational Updates

