



Synonym

HLA-A*0201 & B2M & PRAME (SLLQHLIGL)

Source

Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer Protein(HLE-H52H9) is expressed from human 293 cells (HEK293). It contains AA Ile 21 - Met 119 (B2M) & Gly 25 - Ile 308 (HLA-A*02:01) & SLLQHLIGL peptide (Accession # [P61769](#) (B2M) & [AAA59606.1](#) (HLA-A*02:01) & SLLQHLIGL).

Molecular Characterization

Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer Protein is assembled by biotinylated monomer (HLE-H82E8) and streptavidin.

Biotinylated Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein is produced by co-expression of HLA and B2M loaded with PRAME peptide. Biotinylated Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 51.3 kDa and 13.8 kDa. The protein migrates as 55-60 kDa and 12 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL 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

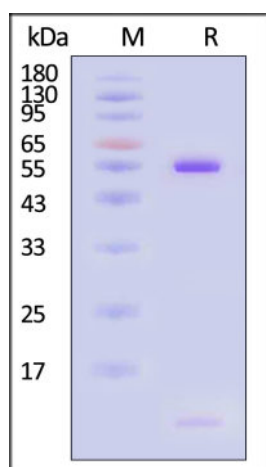
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

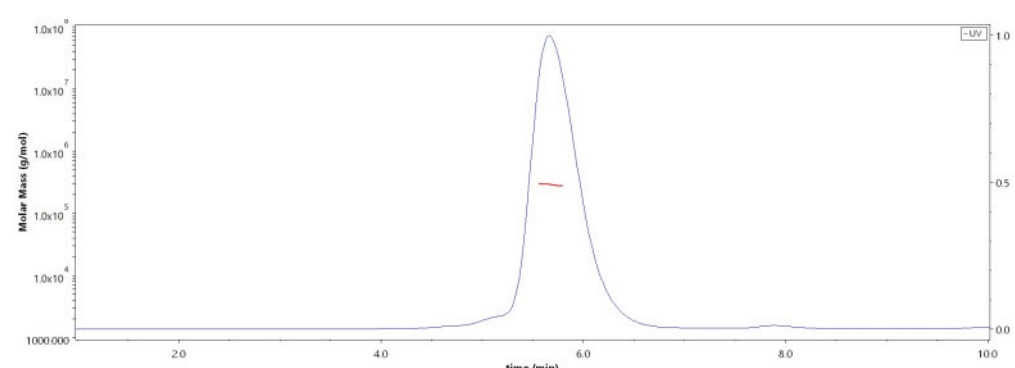
SDS-PAGE



Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer 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](#)).

Bioactivity-ELISA

SEC-MALS



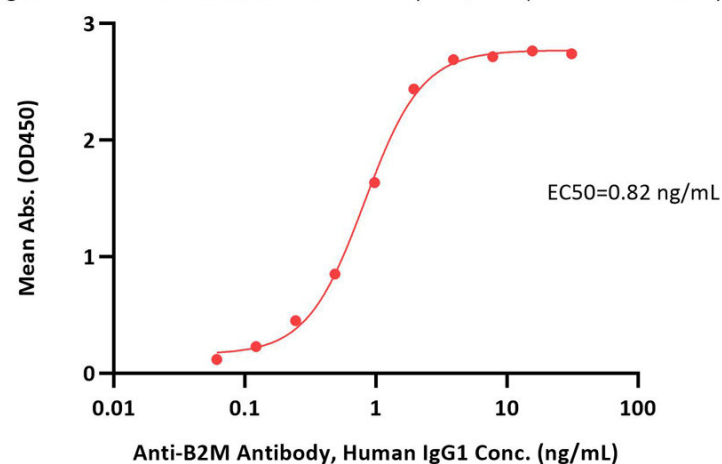
The purity of Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer Protein (Cat. No. HLE-H52H9) is more than 90% and the molecular weight of this protein is around 270-295 kDa verified by SEC-MALS. [Report](#)

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and more!





Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer Protein ELISA
0.1 µg of Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer Protein per well



Immobilized Human HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Tetramer Protein (Cat. No. HLE-H52H9) at 1 µg/mL (100 µL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (QC tested).

Background

This gene encodes an antigen that is preferentially expressed in human melanomas and that is recognized by cytolytic T lymphocytes. It is not expressed in normal tissues, except testis. The encoded protein acts as a repressor of retinoic acid receptor, and likely confers a growth advantage to cancer cells via this function. Alternative splicing results in multiple transcript variants. The PRAME (SLLQHLIGL) was shown to be recognized by HLA-A*0201 tumor-infiltrating lymphocytes from melanoma patients, and therefore it is widely been studied in TCR-T studies. The Human HLA-A*0201 PRAME (SLLQHLIGL) complex protein is a complex of HLA-A*0201 of the MHC Class I, B2M and PRAME (SLLQHLIGL) peptide.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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and more!

