



Synonym

HLA-A*2402 & B2M & EBV BRLF1 (TYPVLEEMF)

Source

Unconjugated Human HLA-A*24:02&B2M&EBV BRLF1 (TYPVLEEMF) Complex Protein (HLF-H52E5) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*24:02) & Ile 21 - Met 119 (B2M) & TYPVLEEMF peptide (Accession # [AAA59600.1](#) (HLA-A*24:02) & [P61769](#) (B2M) & TYPVLEEMF).
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

Unconjugated Human HLA-A*24:02&B2M&EBV BRLF1 (TYPVLEEMF) Complex Protein is produced by co-expression of HLA and B2M loaded with EBV BRLF1 peptide.
This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™), and it is not biotinylated.
The protein has a calculated MW of 35.8 kDa and 11.7 kDa. The protein migrates as 39-42 kDa and 10 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 / rFC method.

Purity

>90% as determined by SDS-PAGE.
>95% 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

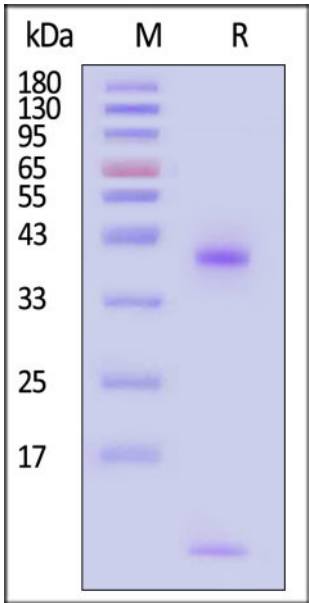
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

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

ACRO Quality Management System

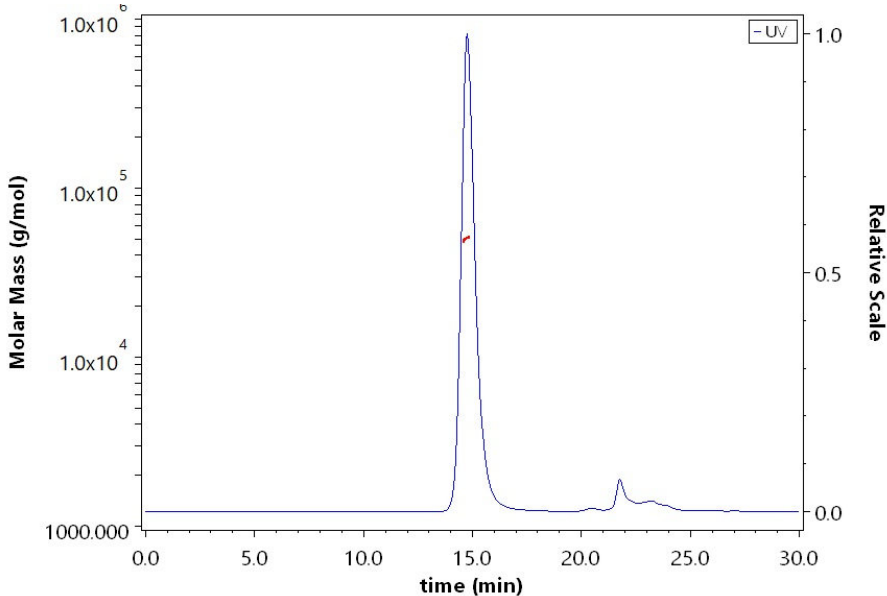
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Unconjugated Human HLA-A*24:02&B2M&EBV BRLF1 (TYPVLEEMF) Complex Protein on SDS-PAGE under reducing (R) condition. The gel was

SEC-MALS

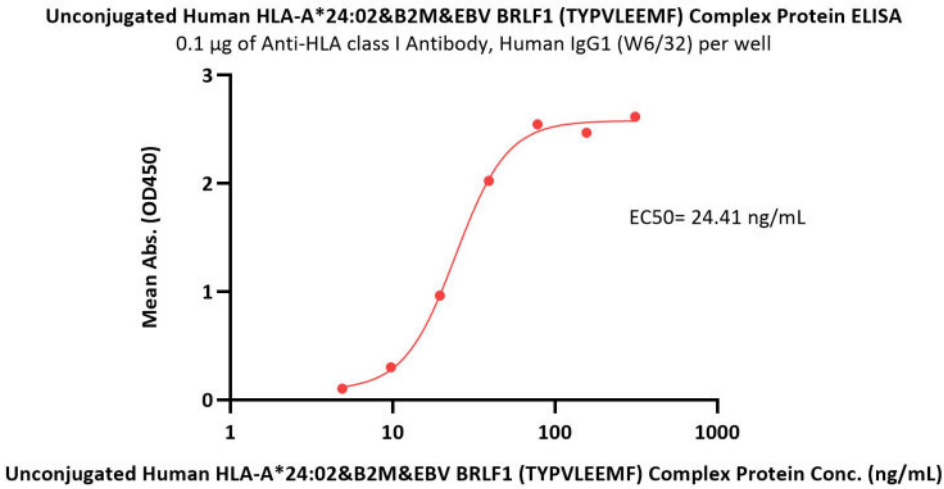


The purity of Unconjugated Human HLA-A*24:02&B2M&EBV BRLF1 (TYPVLEEMF) Complex Protein (Cat. No. HLF-H52E5) is more than 95%

stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Anti-HLA class I Antibody, Human IgG1 (W6/32) at 1 µg/mL (100 µL/well) can bind Unconjugated Human HLA-A*24:02&B2M&EBV BRLF1 (TYPVLEEMF) Complex Protein (Cat. No. HLF-H52E5) with a linear range of 5-40 ng/mL (QC tested).

Background

This is a recombinant protein complex of HLA-A*24:02 presenting an immunodominant 9-mer peptide (TYPVLEEMF) derived from the Epstein-Barr virus (EBV) immediate-early transactivator BRLF1. HLA-A*24:02 is a common class I allele, and this peptide is a well-characterized target for CD8⁺ T cells in EBV-seropositive individuals, making the complex a valuable tool for studying antigen-specific T cell responses in viral immunity and immunotherapies.

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