

Biotinylated Human HLA-DRA1*01:01&HLA-DRB1*11:01&CLIP (PVSKMRMATPLLMQA)

Complex Protein (Monomer)

Catalog # HLP-H82Ed



Synonym

HLA-DRA1*0101 & HLA-DRB1*1101 & CLIP (PVSKMRMATPLLMQA)

Source

Biotinylated Human HLA-DRA1*01:01&HLA-DRB1*11:01&CLIP (PVSKMRMATPLLMQA) Complex Protein (HLP-H82Ed) is expressed from human 293 cells (HEK293). It contains AA Ile 26 - Glu 216 (HLA-DRA1*01:01) & Gly 30 - Lys 227 (HLA-DRB1*11:01) & PVSKMRMATPLLMQA peptide (Accession # [CAI2388006.1](#) (HLA-DRA1*01:01) & [CAI2388099.1](#) (HLA-DRB1*11:01) & PVSKMRMATPLLMQA).
Predicted N-terminus: Ile 26 & Gly 30

Molecular Characterization

Biotinylated Human HLA-DRA1*01:01&HLA-DRB1*11:01&CLIP (PVSKMRMATPLLMQA) Complex Protein is produced by co-expression of HLA-DRA1 and HLA-DRB1 loaded with CLIP peptide.
This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).
The protein has a calculated MW of 29.2 kDa and 29.2 kDa. The protein migrates as 38-42 kDa and 34-37 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.

Purity

>95% as determined by SDS-PAGE.

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

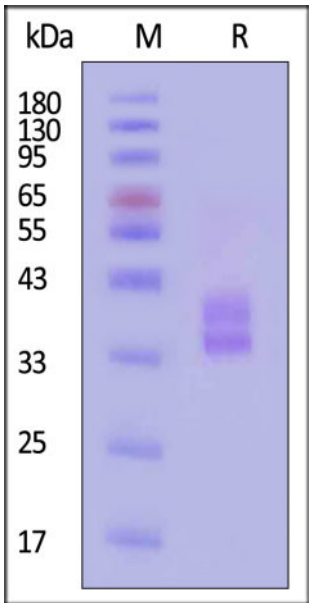
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- -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](#)

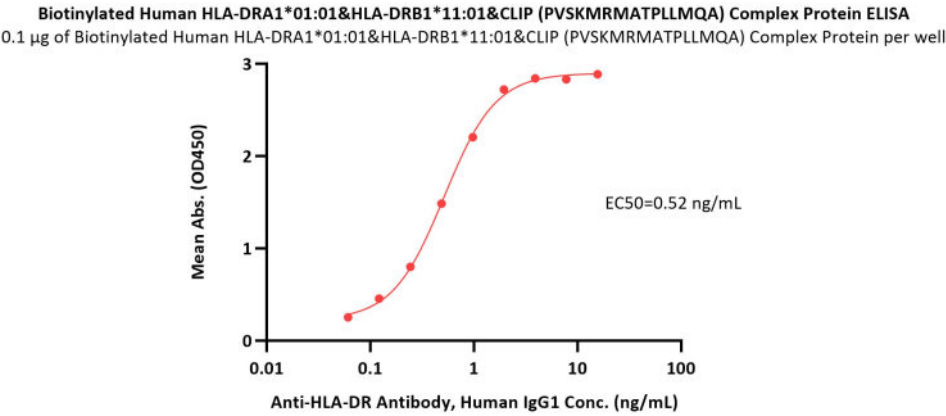
SDS-PAGE



Biotinylated Human HLA-DRA1*01:01&HLA-DRB1*11:01&CLIP (PVSKMRMATPLLMQA) Complex 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



Immobilized Biotinylated Human HLA-DRA1*01:01&HLA-DRB1*11:01&CLIP (PVSKMRMATPLLMQA) Complex Protein (Cat. No. HLP-H82Ed) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-HLA-DR Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (QC tested).

Background

HLA-DR is a isotype of MHC Class II responsible for presenting foreign antigens to the immune system's helper T-cells. The CLIP peptide, derived from the invariant chain, occupies the peptide-binding groove of the newly synthesized HLA-DR molecule to prevent it from loading irrelevant peptides inside the cell.

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