



#### Synonym

HLA-A\*3303 & B2M & EGF R(HVKITDFGR)

#### Source

Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein(HLR-H82Ed) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A\*33:03) & HVKITDFGR peptide & Ile 21 - Met 119 (B2M) (Accession # <u>AAA79865.1</u> (HLA-A\*33:03) & <u>HVKITDFGR</u> & P61769-1 (B2M)).

Predicted N-terminus: Gly 25 & His

#### **Molecular Characterization**

Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein is produced by co-expression of HLA and B2M loaded with EGF R peptide.

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

The protein has a calculated MW of 34.5 kDa and 15.5 kDa. The protein migrates as 40-43 kDa and 13 kDa when calibrated against <u>Star Ribbon Pre-</u><u>stained Protein Marker</u> under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Labeling

Biotinylation of this product is performed using Avitag<sup>™</sup> 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  $\mu g$  by the LAL method.

#### Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

#### 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

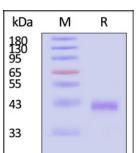
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

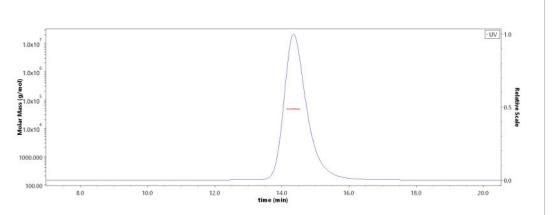
This product is stable after storage at:

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

#### SDS-PAGE



### SEC-MALS





Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein on SDS-PAGE under reducing (R) condition. The gel was stained with The purity of Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein (Cat. No. HLR-H82Ed) is more than 90%





# Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein (Monomer, MALS verified)



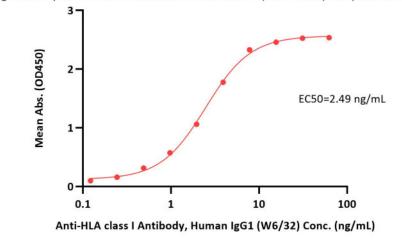
#### Catalog # HLR-H82Ed

Coomassie Blue. The purity of the protein is greater than 90% (With <u>Star</u> <u>Ribbon Pre-stained Protein Marker</u>).

## and the molecular weight of this protein is around 40-65 kDa verified by SEC-MALS. Report

#### **Bioactivity-ELISA**

Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein ELISA 0.1 μg of Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein per well



Immobilized Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein (Cat. No. HLR-H82Ed) 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 0.1-8 ng/mL (QC tested).

Immobilized Biotinylated Human HLA-A\*33:03&B2M&EGF R (HVKITDFGR) Complex Protein (Cat. No. HLR-H82Ed) at 1  $\mu$ g/mL (100  $\mu$ L/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5  $\mu$ g/well) plate can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (Routinely tested).

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