

# Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein (Monomer, MALS verified)

Catalog # HLR-H82Ec



BIOSYSTEMS  
**Acro**

## Source

Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein(HLR-H82Ec) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*11:01) & Ile 21 - Met 119 (B2M) & KITDFGLAK peptide (Accession # [Q5S3G3-1](#) (HLA-A\*11:01) & [P61769](#) (B2M) & KITDFGLAK).

Predicted N-terminus: Gly 25 & Ile 21

## Molecular Characterization

Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGRK) 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™).

The protein has a calculated MW of 36.0 kDa and 11.7 kDa. The protein migrates as 40-43 kDa and 10 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.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## 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

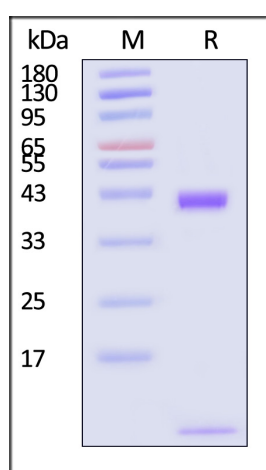
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

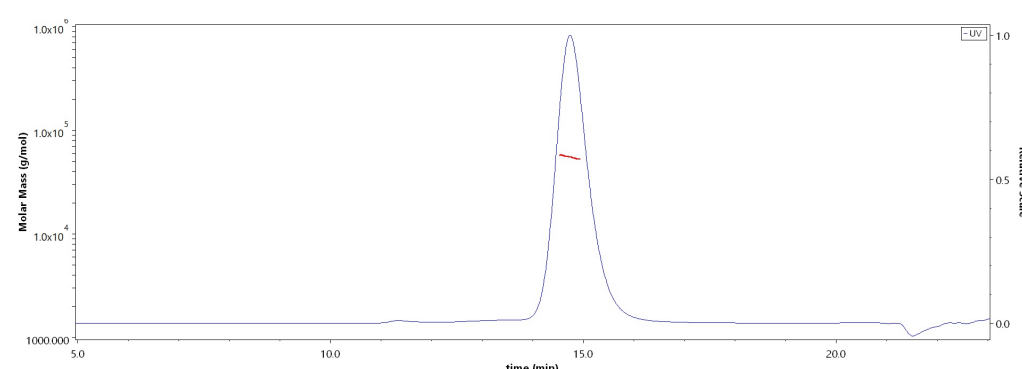
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) 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](#)).

## SEC-MALS



The purity of Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein (Cat. No. HLR-H82Ec) is more than 90% and the molecular weight of this protein is around 40-65 kDa verified by SEC-MALS.

[Report](#)

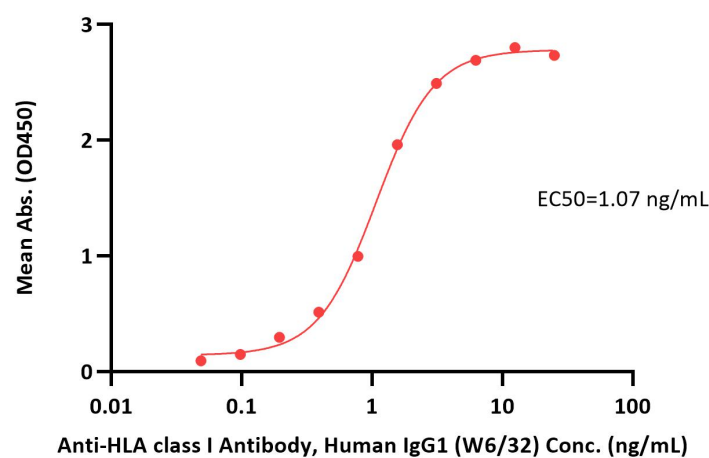
Discounts, Gifts,  
and more!



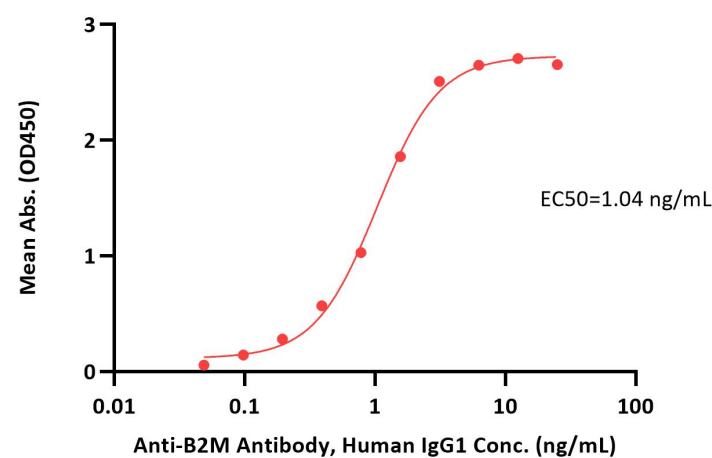


## Bioactivity-ELISA

**Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein ELISA**  
0.1 µg of Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein per well



**Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein ELISA**  
0.1 µg of Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein per well



Immobilized Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein (Cat. No. HLR-H82Ec) 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 0.05-3 ng/mL (QC tested).

Immobilized Biotinylated Human HLA-A\*11:01&B2M&EGF R (KITDFGLAK) Complex Protein (Cat. No. HLR-H82Ec) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.05-3 ng/mL (Routinely tested).

## Background

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer. The Human HLA-A\*1101 & B2M & EGF R (KITDFGLAK) protein is a complex of HLA-A\*1101 of the MHC Class I, B2M, and KITDFGLAK peptide of the EGF R.

## Clinical and Translational Updates

Discounts, Gifts,  
and more!

