



Source

Biotinylated Human HLA-A*11:01&B2M&EGF R (KITDFGRAK) Complex Protein(HLR-H82Eb) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*11:01) & Ile 21 - Met 119 (B2M) & KITDFGRAK peptide (Accession # [Q5S3G3-1](#) (HLA-A*11:01) & [P61769](#) (B2M) & KITDFGRAK).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

Biotinylated Human HLA-A*11:01&B2M&EGF R (KITDFGRAK) 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 11 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

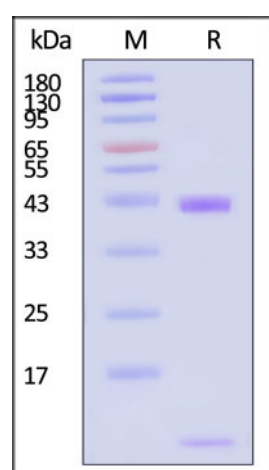
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

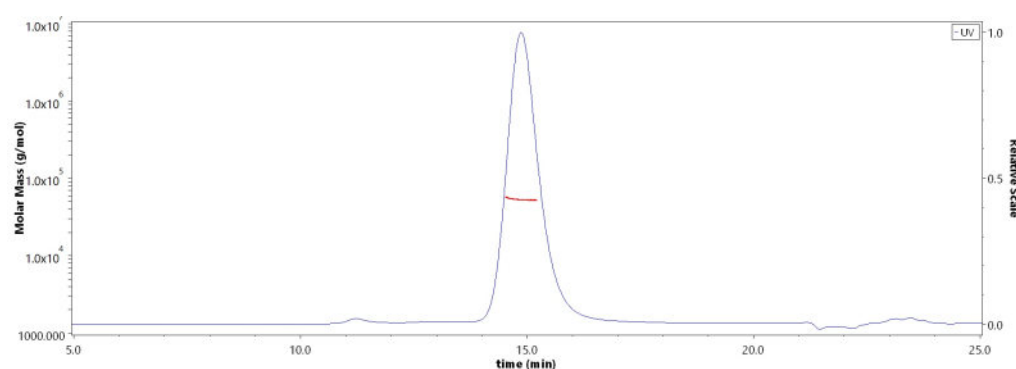
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human HLA-A*11:01&B2M&EGF R (KITDFGRAK) 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 (KITDFGRAK) Complex Protein (Cat. No. HLR-H82Eb) is more than 90% and the molecular weight of this protein is around 40-65 kDa verified by SEC-MALS.

[Report](#)

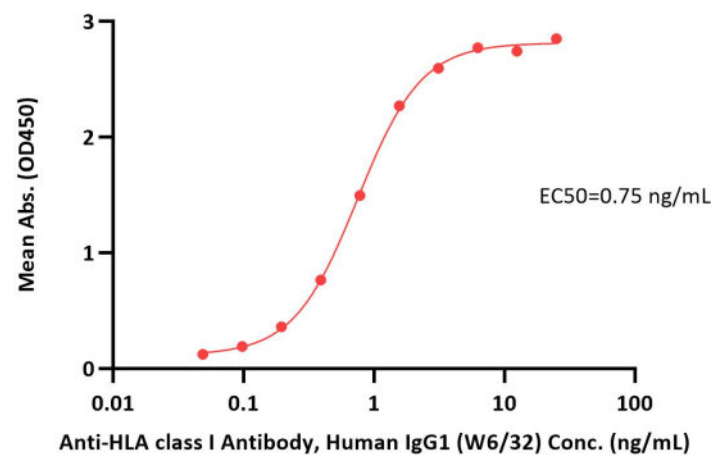
Discounts, Gifts,
and more!



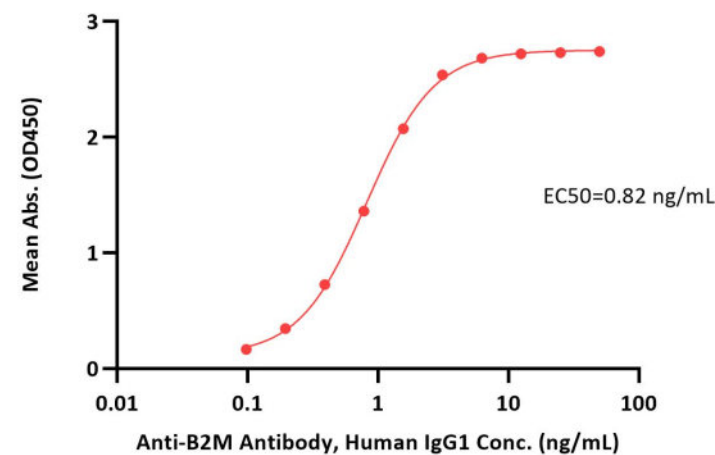


Bioactivity-ELISA

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



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



Immobilized Biotinylated Human HLA-A*11:01&B2M&EGF R (KITDFGRAK) Complex Protein (Cat. No. HLR-H82Eb) 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 0.05-2 ng/mL (QC tested).

Immobilized Biotinylated Human HLA-A*11:01&B2M&EGF R (KITDFGRAK) Complex Protein (Cat. No. HLR-H82Eb) 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 0.1-2 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 (KITDFGRAK) protein is a complex of HLA-A*1101 of the MHC Class I, B2M, and KITDFGRAK peptide of the EGF R.

Clinical and Translational Updates

Discounts, Gifts,
and more!

