

Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer Protein



Cat. No. MHC-HM4A2

Description

Source	Recombinant Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*11:01), Ile21-Met119(B2M) and KITDFGRAK peptide.
Accession	AAV53343.1(HLA-A*11:01)&P61769(B2M)&KITDFGRAK
Molecular Weight	The protein has a predicted MW of 50.44 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

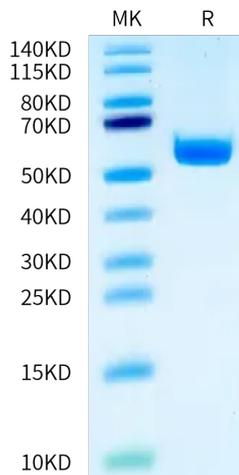
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The epidermal growth factor receptor is a transmembrane protein that is a receptor for members of the epidermal growth factor 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, HER2/neu, Her 3 and Her 4. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses.

Assay Data

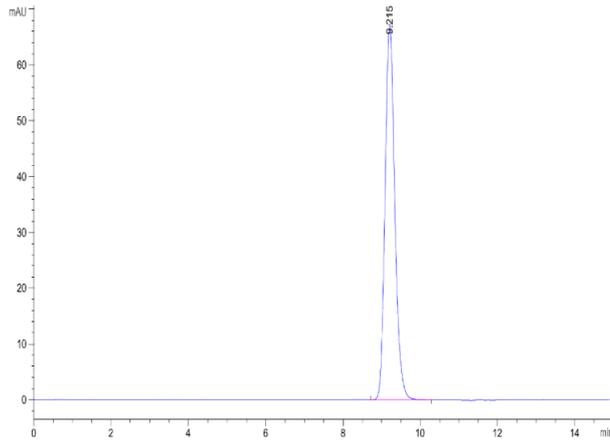
Bis-Tris PAGE



Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



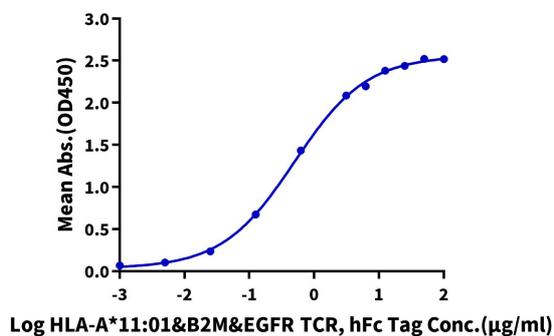
The purity of Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human HLA-A*11:01&B2M&EGFR (KITDFGRAK) Monomer, His Tag ELISA

0.5µg Human HLA-A*11:01&B2M&EGFR (KITDFGRAK) Monomer, His Tag Per Well

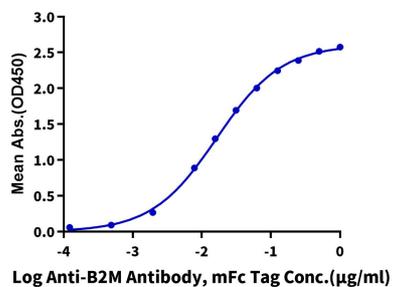


Immobilized Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for HLA-A*11:01&B2M&EGFR TCR with the EC50 of 0.49µg/ml determined by ELISA (QC Test).

ELISA Data

Biotinylated Human HLA-A*11:01&B2M&EGFR (KITDFGRAK) Monomer, His Tag ELISA

0.1µg Biotinylated Human HLA-A*11:01&B2M&EGFR (KITDFGRAK) Monomer, His Tag Per Well



Immobilized Biotinylated Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer, His Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 16.4ng/ml determined by ELISA.