

Biotinylated Human HLA-A*11:01&B2M&EGFR WT (KITDFGLAK) Monomer Protein



Cat. No. MHC-HE451B

Description

Source	Recombinant Biotinylated Human HLA-A*11:01&B2M&EGFR WT (KITDFGLAK) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*11:01), Ile21-Met119(B2M) and KITDFGLAK peptide.
Accession	AAV53343.1(HLA-A*11:01)&P61769(B2M)&KITDFGLAK
Molecular Weight	The protein has a predicted MW of 35.36 kDa (HLA-A*11:01) and 11.9 kDa (B2M) same as 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

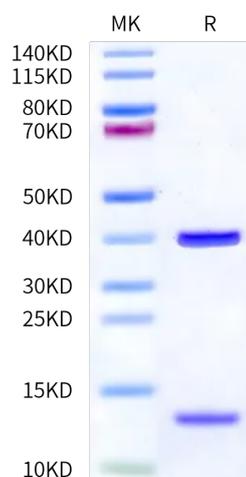
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The human telomerase catalytic subunit human telomerase reverse transcriptase (hTERT) is expressed in many human cancer cells derived from multiple tissues, but infrequently in normal cells. Thus, hTERT is an attractive candidate target for tumor immunotherapy. hTERT:540–548 peptide (p540, ILAKFLHWL) has been identified as an effective HLA-A*0201-restricted T-cell epitope, an effective T-cell-based cancer treatment, including vaccines, against hTERT will likely require the identification of other MHC class I-restricted epitopes in this antigen.

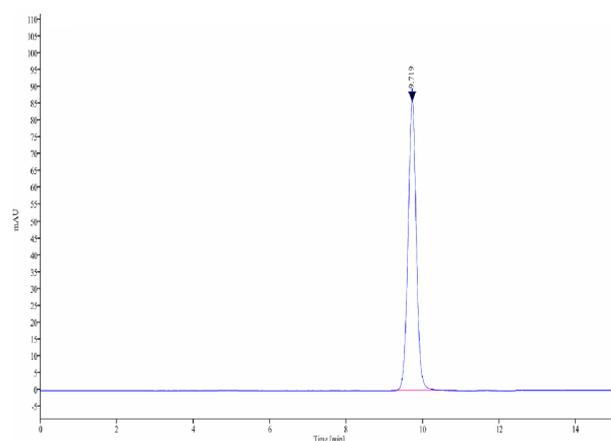
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



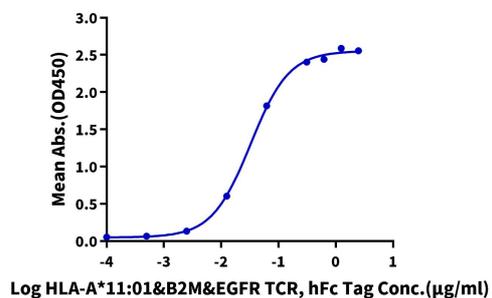
The purity of Biotinylated Human HLA-A*11:01&B2M&EGFR WT (KITDFGLAK) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human HLA-A*11:01&B2M&EGFR WT (KITDFGLAK), His avi Tag ELISA

0.2µg Biotinylated Human HLA-A*11:01&B2M&EGFR WT (KITDFGLAK), His Avi Tag Per Well



Immobilized Biotinylated Human HLA-A*11:01&B2M&EGFR WT (KITDFGLAK) Monomer, His Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for HLA-A*11:01&B2M&EGFR TCR, hFc Tag with the EC50 of 32.6ng/ml determined by ELISA.