

Cat. No. MHC-HM415B

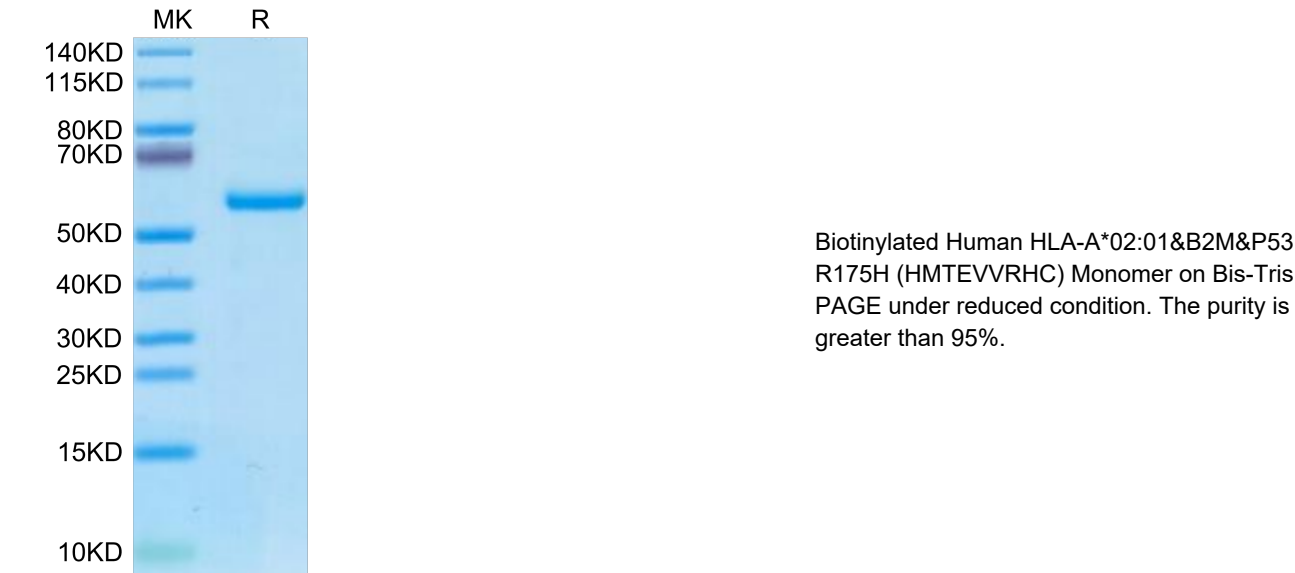
Description	
Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and HMTEVVRHC peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&HMTEVVRHC
Molecular Weight	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 55-60 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 20mM Tris, 150mM NaCl, 100mM L-Arginine (pH 8.0). 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	
p53 is a tumor suppressor protein. Under stressful conditions, p53 tightly regulates cell growth by promoting apoptosis and DNA repair. When p53 becomes mutated, it loses its function, resulting in abnormal cell proliferation and tumor progression. Depending on the p53 mutation, it has been shown to form aggregates leading to negative gain of function of the protein.p53 mutant associated aggregation has been observed in several cancer tissues and has been shown to promote tumor growth.	

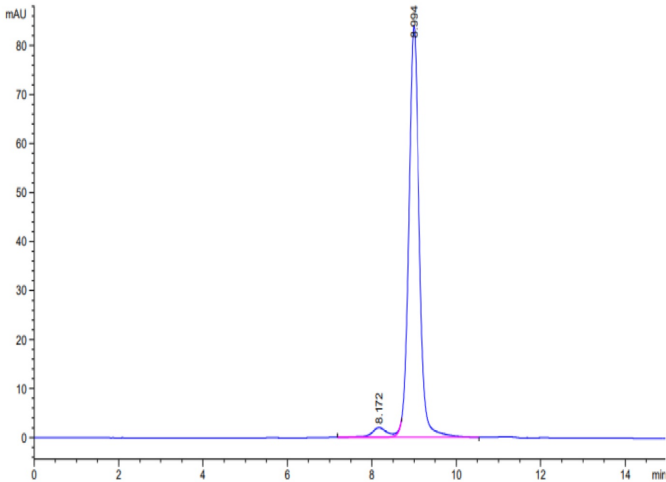
Assay Data

Bis-Tris PAGE



SEC-HPLC

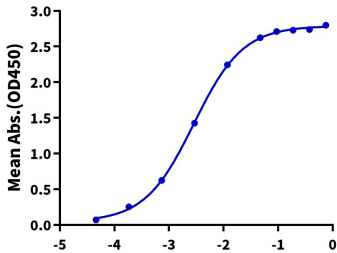
Assay Data



The purity of Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer was greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC), His Avi Tag ELISA
0.2µg Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC), His Avi Tag Per Well



Immobilized Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His-Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Antibody, hFc Tag with the EC50 of 2.8ng/ml determined by ELISA.