

Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer Protein



Cat. No. MHC-HM415

Description	
Source	Recombinant 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 51-60 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 0.22µm filtered solution in PBS, 100mM L-arginine (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	
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



Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

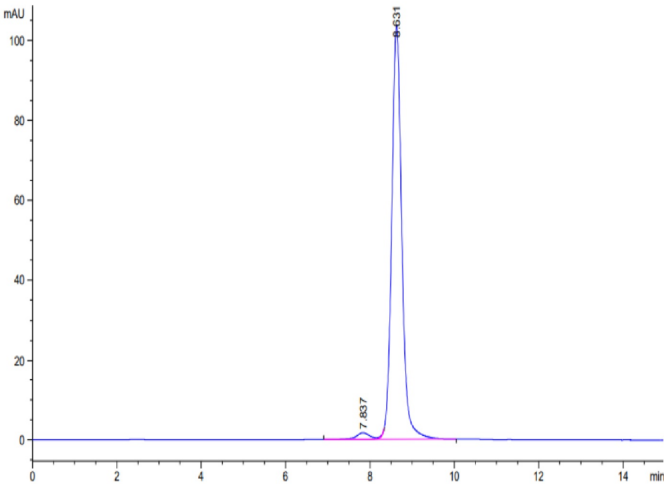
SEC-HPLC

Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer Protein



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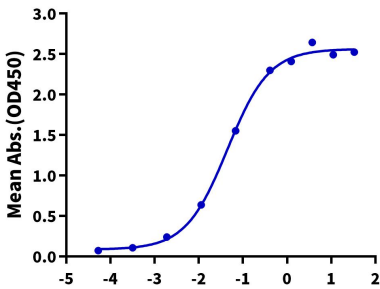
Assay Data



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

ELISA Data

Human HLA-A*02:01&B2M&P53 R175H Monomer, His Tag ELISA
0.1µg Anti-HLA-A*02:01&B2M&P53 R175H Antibody, hFc Tag Per Well



Immobilized Anti-HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His Tag with the EC50 of 44.7ng/ml determined by ELISA.