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

Cat. No. MHC-HE011B

Description

Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer Protein is expressed from E.coli 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 35.6 kDa (HLA-A*02:01) 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

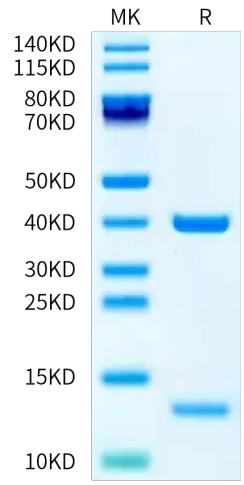
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0). Normally 8% mannitol is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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



Biotinylated 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

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

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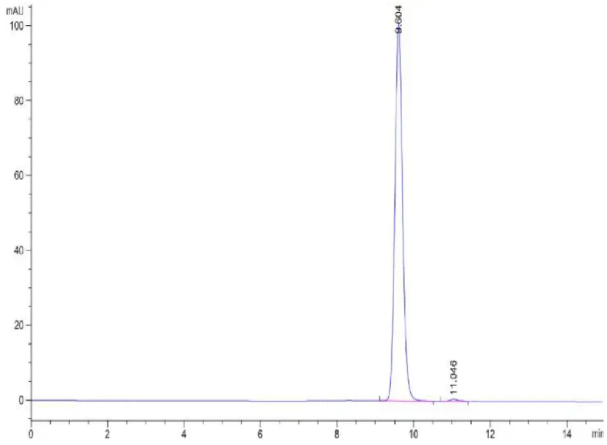
Assay Data



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

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

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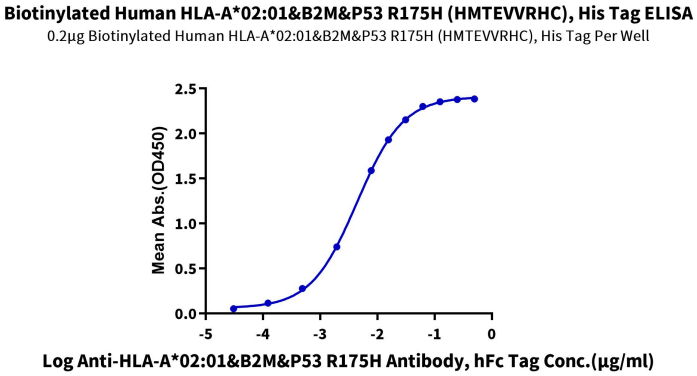
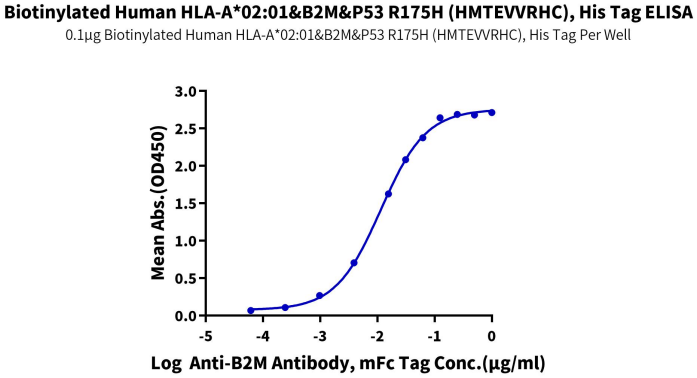
Assay Data

ELISA Data



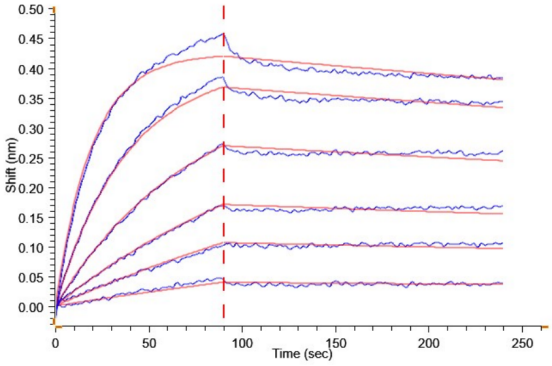
Immobilized Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His Tag at 2μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Antibody, hFc Tag with the EC50 of 4.4ng/ml determined by ELISA (QC Test).

ELISA Data



Immobilized Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His Tag at 1μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 11.5ng/ml determined by ELISA.

BLI Data



Loaded Biotinylated Human HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer on Anti-His-Biosensor can bind Anti-HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Antibody, hFc-Avi Tag with an affinity constant of 0.65 nM as determined in BLI assay (Gator® Prime).