

Cat. No. MHC-HM431B

Description	
Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) 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 RMFPNAPYL peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&RMFPNAPYL
Molecular Weight	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 55-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

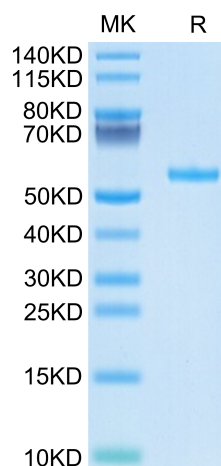
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

**Background**

The WT1 protein plays a role in cell growth, the process by which cells mature to perform specific functions (differentiation), and the self-destruction of cells (apoptosis). WT1 is differentially expressed in serous, endometrioid, clear cell, and mucinous carcinomas of the peritoneum, fallopian tube, ovary, and endometrium.The Human HLA-A\*0201 WT-1 (RMFPNAPYL) complex Protein is a complex of HLA-A\*0201 of the MHC Class I, B2M and RMFPNAPYL peptide of the WT-1.

**Assay Data**

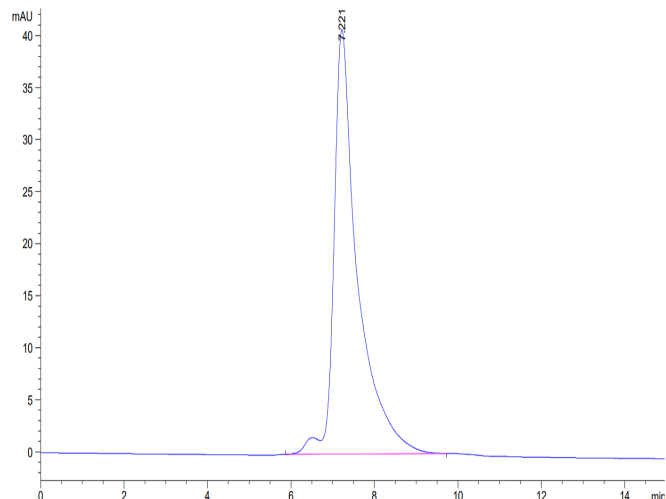
**Tris-Bis PAGE**



Biotinylated Human HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

Assay Data

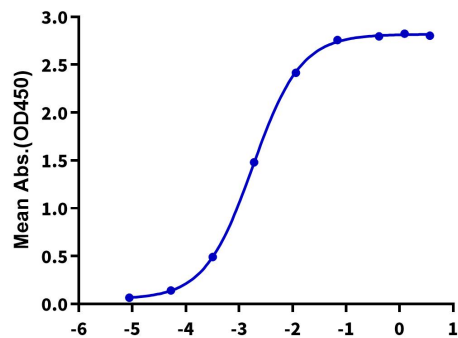


The purity of Biotinylated Human HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Monomer was greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human HLA-A\*02:01&B2M&WT-1, His Tag ELISA**

0.1µg Biotinylated Human HLA-A\*02:01&B2M&WT-1, His Tag Per Well



Immobilized Biotinylated Human HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Monomer, His Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Antibody, hFc Tag with the EC50 of 1.8ng/ml determined by ELISA.