

# Human HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer Protein

Cat. No. MHC-HM431T

## Description

<b>Source</b>	Recombinant Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and RMFPNAPYL peptide.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&RMFPNAPYL
<b>Molecular Weight</b>	The protein has a predicted MW of 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

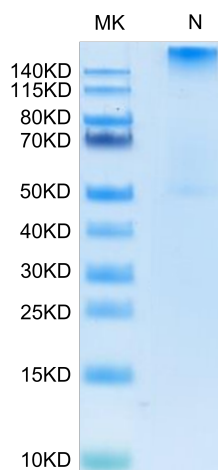
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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

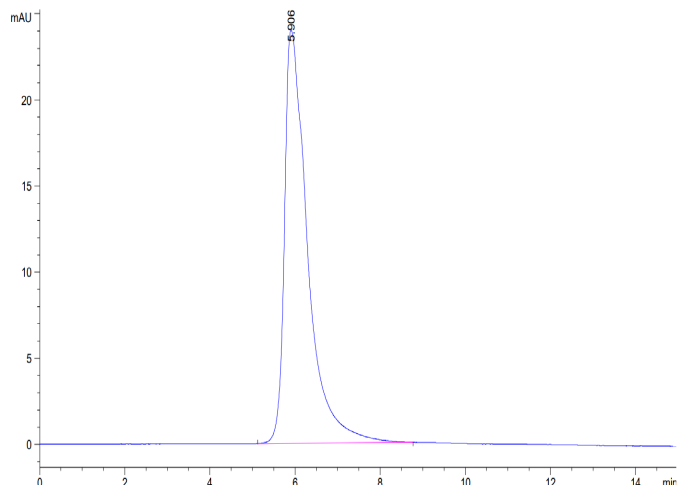
### Tris-Bis PAGE



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

### SEC-HPLC

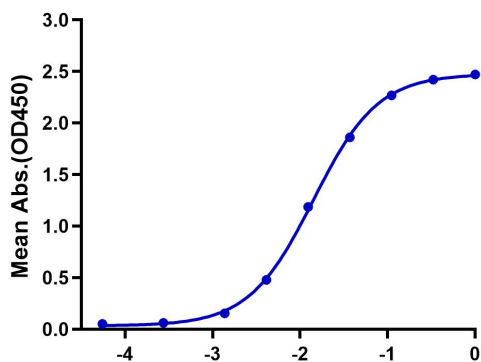
**Assay Data**



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

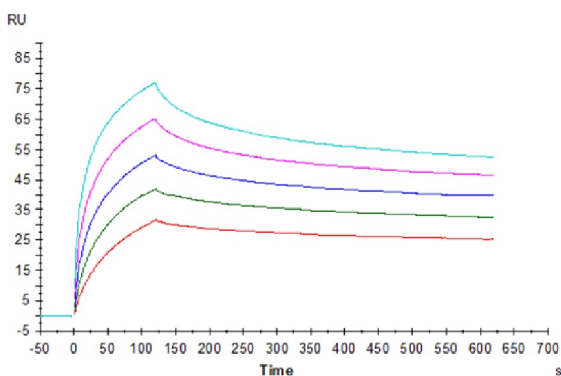
**ELISA Data**

**Human WT-1(HLA-A\*02:01) Tetramer, His Tag ELISA**  
0.1µg Human WT-1(HLA-A\*02:01) Tetramer, His Tag Per Well



Immobilized Human HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Antibody, hFc Tag with the EC50 of 14.2ng/ml determined by ELISA (QC Test).

**SPR Data**



Anti-HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Antibody captured on Protein A chip, can bind Human HLA-A\*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His Tag with an affinity constant of 0.18nM as determined in a SPR assay (Biacore T200).