

# Human HLA-A\*02:01&B2M&P53 WT (HMTEVVRRC) Tetramer Protein



Cat. No. MHC-HM416T

## Description

<b>Source</b>	Recombinant Human HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) 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 HMTEVVRRC peptide.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&HMTEVVRRC
<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 Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

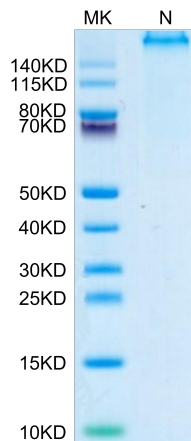
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -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.

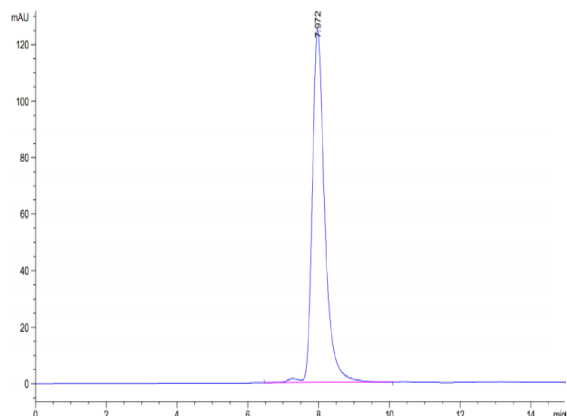
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



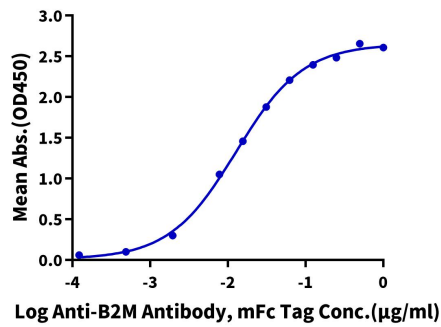
The purity of Human HLA-A\*02:01&B2M&P53 WT (HMTEVVRRC) Tetramer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human HLA-A\*02:01&B2M&P53 WT (HMTEVRRRC) Tetramer, His Tag ELISA

0.05µg Human HLA-A\*02:01&B2M&P53 WT (HMTEVRRRC) Tetramer, His Tag Per Well



Immobilized Human HLA-A\*02:01&B2M&P53 WT (HMTEVRRRC) Tetramer, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 12.8ng/ml determined by ELISA.