

# Biotinylated Human HLA-A\*02:01&B2M&ARF (AAPGAPAAV) Monomer Protein



Cat. No. MHC-HE024B

## Description

<b>Source</b>	Recombinant Biotinylated Human HLA-A*02:01&B2M&ARF (AAPGAPAAV) 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 AAPGAPAAV peptide.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&AAPGAPAAV
<b>Molecular Weight</b>	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.
<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

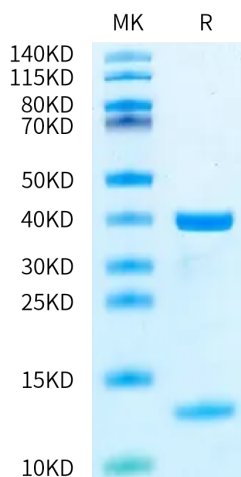
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Auxin Response Factors (ARFs) are a family of plant-specific transcription factors that play crucial roles in regulating plant growth and development. ARFs bind to auxin response elements (AuxREs) in the promoters of auxin-responsive genes, where they activate or repress transcription. They also recruit a second family of transcription factors, the Aux/IAA repressors, which confer an auxin response to the genes.

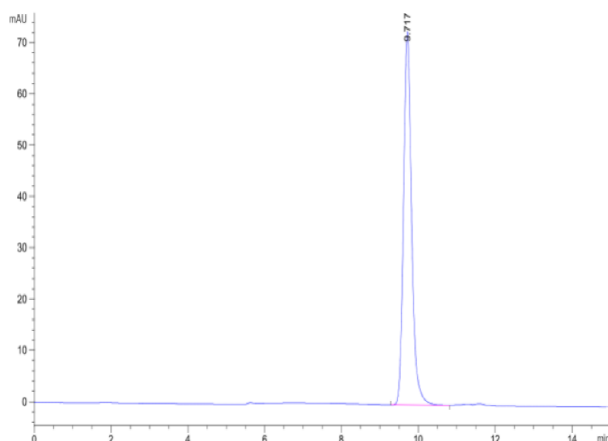
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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

Biotinylated Human HLA-A\*02:01&B2M&ARF (AAPGAPAAV) Monomer Protein

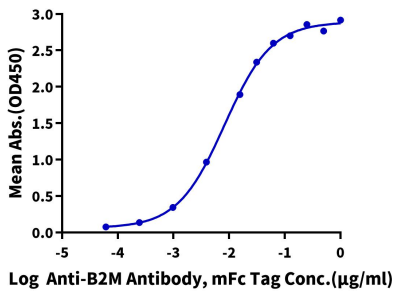


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Assay Data

ELISA Data

**Biotinylated Human HLA-A\*02:01&B2M&ARF (AAPGAPAAV) Monomer, His Tag ELISA**  
0.1µg Biotinylated Human HLA-A\*02:01&B2M&ARF (AAPGAPAAV) Monomer, His Tag Per Well



Immobilized Biotinylated Human HLA-A\*02:01&B2M&ARF (AAPGAPAAV) 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 8.3ng/ml determined by ELISA (QC Test).