

# Biotinylated Human HLA-A\*02:01&B2M&MTMR5 (KMQGAPPAV) Monomer Protein



Cat. No. MHC-HE029B

## Description

<b>Source</b>	Recombinant Biotinylated Human HLA-A*02:01&B2M&MTMR5 (KMQGAPPAV) Monomer Protein is expressed from E.coli His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and KMQGAPPAV peptide.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&KMQGAPPAV
<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 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

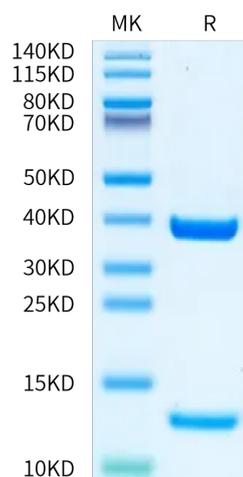
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The human SBF1 (SET binding factor 1) gene, alternatively known as MTMR5, is predominantly expressed in the brain, and its epigenetic dysregulation is linked to late-onset neurocognitive disorders (NCDs), such as Alzheimer's disease.

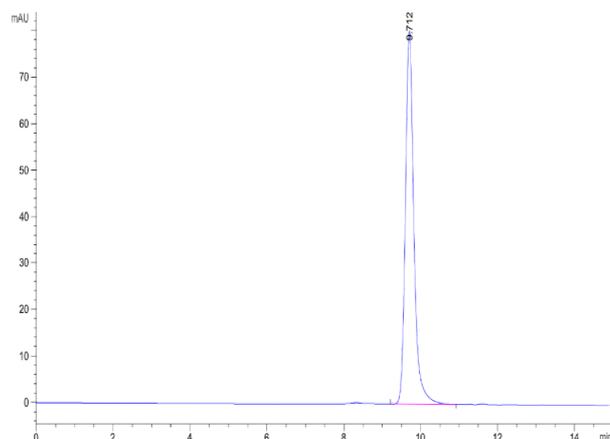
## Assay Data

### Bis-Tris PAGE



Biotinylated Human HLA-A\*02:01&B2M&MTMR5 (KMQGAPPAV) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



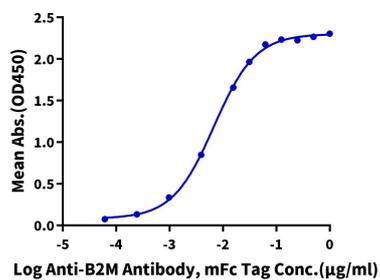
The purity of Biotinylated Human HLA-A\*02:01&B2M&MTMR5 (KMQGAPPAV) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human HLA-A\*02:01&B2M&MTMR5 (KMQGAPPV) Monomer, His Tag ELISA**

0.05µg Biotinylated Human HLA-A\*02:01&B2M&MTMR5 (KMQGAPPV) Monomer, His Tag Per Well



Immobilized Biotinylated Human HLA-A\*02:01&B2M&MTMR5 (KMQGAPPV) Monomer, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 6.8ng/ml determined by ELISA (QC Test).