

# Human HLA-A\*03:01&B2M&IGA2 (FTWTPSSGK) Monomer Protein

Cat. No. MHC-HE032

## Description

<b>Source</b>	Recombinant Human HLA-A*03:01&B2M&IGA2 (FTWTPSSGK) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305 (HLA-A*03:01), Ile21-Met119 (B2M) and FTWTPSSGK peptide.
<b>Accession</b>	NP_002107.3 (HLA-A*03:01)&P61769 (B2M)&FTWTPSSGK
<b>Molecular Weight</b>	The protein has a predicted MW of 35.26 kDa (HLA-A*03:01) 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

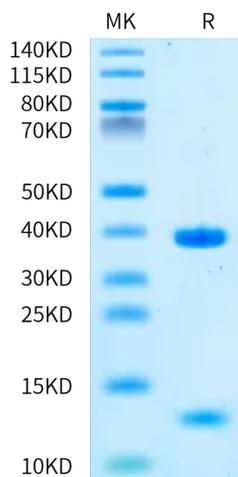
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The immunoglobulin variable region is a part of an antibody molecule responsible for antigen recognition and binding. It is located at the N-terminal end of each antibody chain and is highly diverse due to the presence of variable (V), diversity (D), and joining (J) gene segments in B cells that undergo somatic recombination during antibody production. This variability allows the immune system to recognize a wide range of antigens.

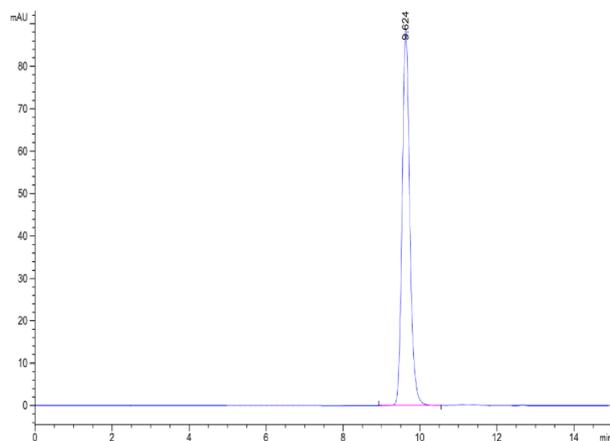
## Assay Data

### Bis-Tris PAGE



Human HLA-A\*03:01&B2M&IGA2 (FTWTPSSGK) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



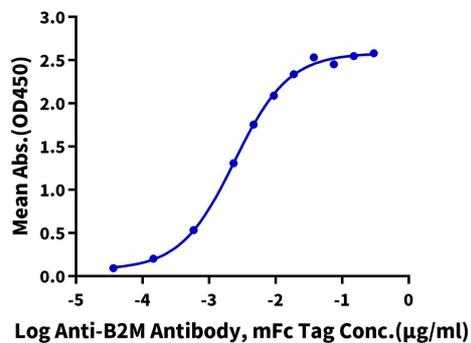
The purity of Human HLA-A\*03:01&B2M&IGA2 (FTWTPSSGK) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human HLA\*03:01&B2M&IGA2 (FTWTPSSGK) Monomer, His Tag ELISA

0.1µg Human HLA\*03:01&B2M&IGA2 (FTWTPSSGK) Monomer, His Tag Per Well



Immobilized Human HLA\*03:01&B2M&IGA2 (FTWTPSSGK) Monomer, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 2.4 ng/ml determined by ELISA.