

Cat. No. MHC-HE032B

Description	
Source	Recombinant Biotinylated 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.
Accession	NP_002107.3(HLA-A*03:01)&P61769(B2M)&FTWTPSSGK
Molecular Weight	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.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

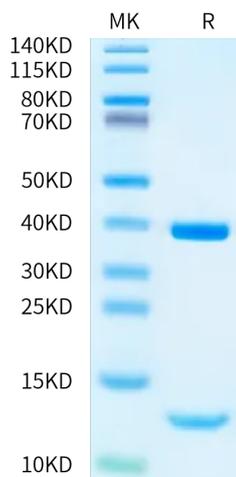
Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

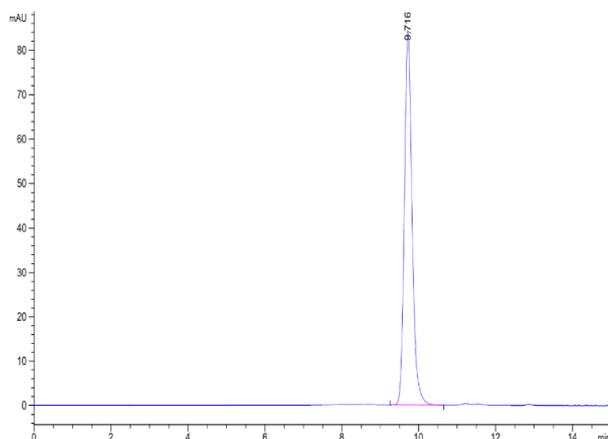
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



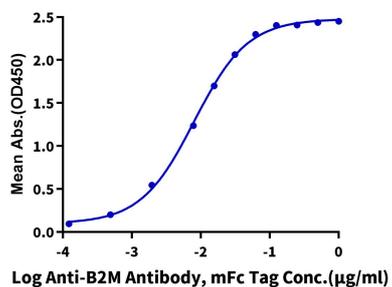
The purity of Biotinylated Human HLA-A*03:01&B2M&IGA2 (FTWTPSSGK) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

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

0.05µg Biotinylated Human HLA-A*03:01&B2M&IGA2 (FTWTPSSGK) Monomer, His Tag Per Well



Immobilized Biotinylated Human HLA*03:01&B2M&IGA2 (FTWTPSSGK) Monomer, His Tag at 0.5 µg/ml (100 µl/Well) on streptavidin (5 µg/ml) precoated plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 8.0 ng/ml determined by ELISA.