

Biotinylated Human Peptide Ready HLA-A*03:01&B2M Monomer Protein

Cat. No. MHC-HM44RB

Description

Source	Recombinant Biotinylated Human Peptide Ready HLA-A*03:01&B2M Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305(HLA-A*03:01) and Ile21-Met119(B2M).
Accession	NP_002107.3(HLA-A*03:01)&P61769(B2M)
Molecular Weight	The protein has a predicted MW of 48.40 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

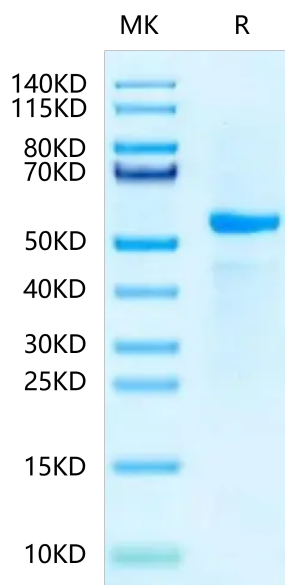
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Peptide Ready HLA-A*03:01&B2M Monomer is absent from peptide, namely peptide-receptive MHC. It can be loaded with antigenic peptides matching HLA-A*03:01. Peptide ready MHC molecules comprising human HLA alleles and B2M, which can be readily tetramerized and loaded with peptides of choice in a high-throughput manner.

Assay Data

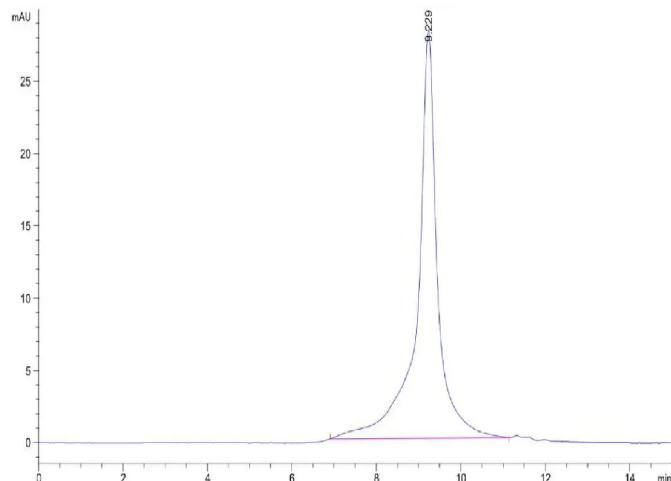
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

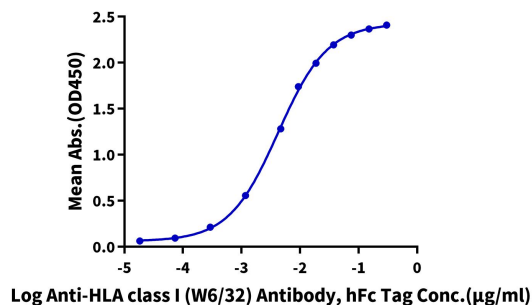


The purity of Biotinylated Human Peptide Ready HLA-A*03:01&B2M Monomer is greater than 90% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human Peptide Ready HLA-A*03:01&B2M Monomer, His Tag ELISA

0.1µg Biotinylated Human Peptide Ready HLA-A*03:01&B2M Monomer, His Tag Per Well



Immobilized Biotinylated Human Peptide Ready HLA-A*03:01&B2M Monomer, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate(5µg/ml). Dose response curve for Anti-HLA class I (W6/32) Antibody, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA.