

Chimeric HLA-A*02:01 (α3) &B2M&LMP2 (CLGGLTMV) Monomer Protein



Cat. No. MHC-HM413

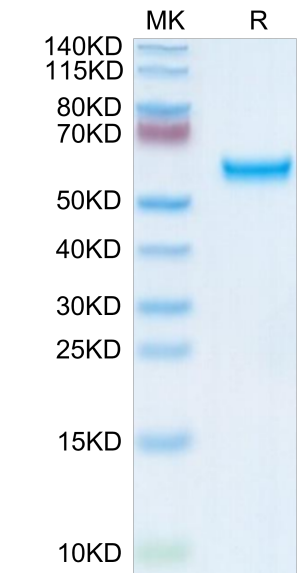
Description	
Source	Recombinant Chimeric HLA-A*02:01(α3)&B2M&LMP2 (CLGGLTMV) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr206(Human HLA-A*02:01 α1&α2)&Asp207-Glu299(Mouse H-2Ld α3), Ile21-Met119(B2M) and CLGGLTMV peptide.
Accession	A0A140T913(Human HLA-A*02:01 α1&α2)&P01897(Mouse H-2Ld α3)&P61769(B2M)&CLGGLTMV
Molecular Weight	The protein has a predicted MW of 50.3 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on 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	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
The immunoproteasome, having been linked to neurodegenerative diseases and hematological cancers, has been shown to play an important role in MHC class I antigen presentation. The development of molecular probes that selectively inhibit the major catalytic subunit, LMP2, of the immunoproteasome,LMP2-rich cancer cells compared to LMP2-deficient cancer cells are more sensitive to growth inhibition by the LMP2-specific inhibitor, implicating an important role of LMP2 in regulating cell growth of malignant tumors that highly express LMP2.	

Assay Data

Bis-Tris PAGE



Chimeric HLA-A*02:01 (α3) &B2M&LMP2 (CLGGLTMV) Monomer on Bis-Tris PAGE under reduced and non-reduced condition. The purity is greater than 95%.

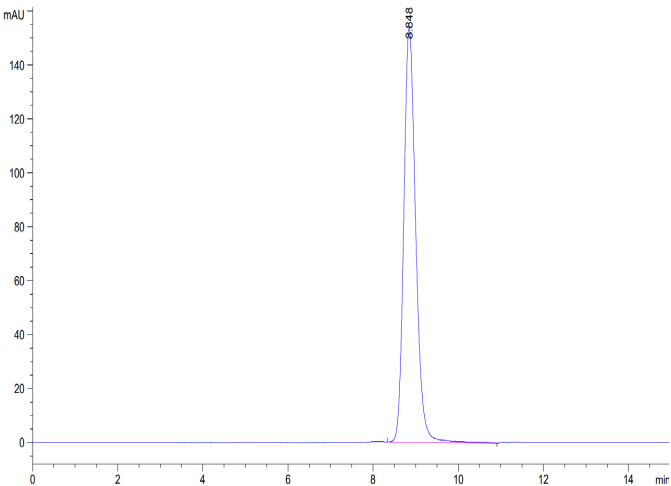
SEC-HPLC

Chimeric HLA-A*02:01 (α3) &B2M&LMP2 (CLGGLTMTV) Monomer Protein



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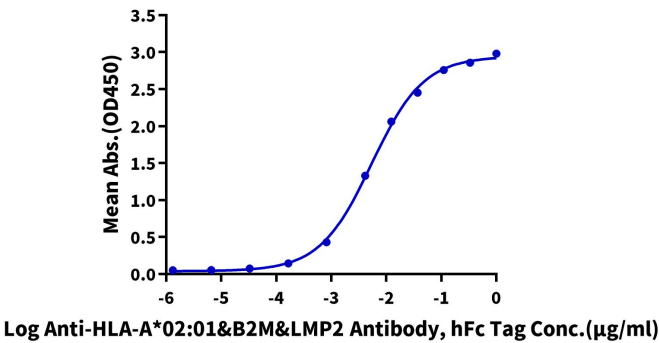
Assay Data



The purity of Chimeric HLA-A*02:01 (α3) &B2M&LMP2 (CLGGLTMTV) Monomer was greater than 95% as determined by SEC-HPLC.

ELISA Data

Chimeric HLA-A*02:01(α3)&B2M&LMP2 (CLGGLTMTV), His Tag ELISA
0.5μg Chimeric HLA-A*02:01(α3)&B2M&LMP2 (CLGGLTMTV), His Tag Per Well



Immobilized Chimeric HLA-A*02:01(α3)&B2M&LMP2 (CLGGLTMTV) Monomer, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&LMP2 (CLGGLTMTV) Antibody, hFc Tag with the EC50 of 5.4ng/ml determined by ELISA.