Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer Protein

Cat. No. MHC-HM411B

Description

Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and CLGGLLTMV peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&CLGGLLTMV
Molecular Weight	The protein has a predicted MW of 50.3 kDa. Due to glycosylation, the protein migrates to 51-60 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

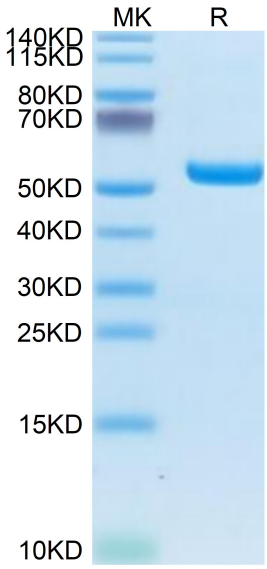
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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



Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer Protein

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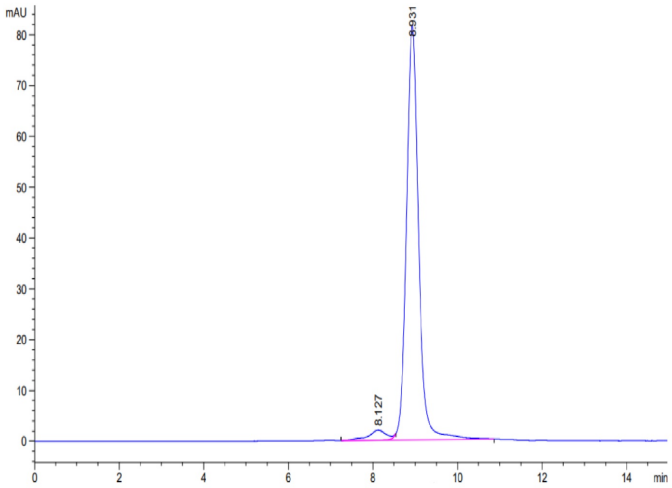
Assay Data

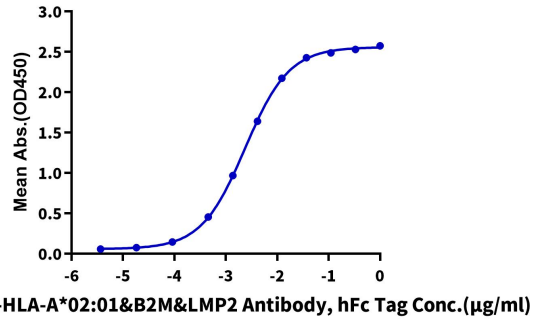


The purity of Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV), His Tag ELISA

0.1μg Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV), His Tag Per Well



Immobilized Biotinylated Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer, His Tag at 1μg/ml (100μl/Well) on streptavidin (5μg/ml) precoated plate. Dose response curve for Anti-HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Antibody, hFc Tag with the EC50 of 2.4ng/ml determined by ELISA.

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