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

Cat. No. MHC-HM411T

Description

Source	Recombinant Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus,tetramer is assembled by biotinylated monomer and streptavidin.
	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 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

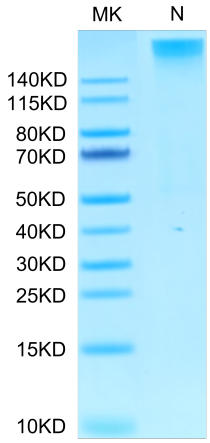
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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.

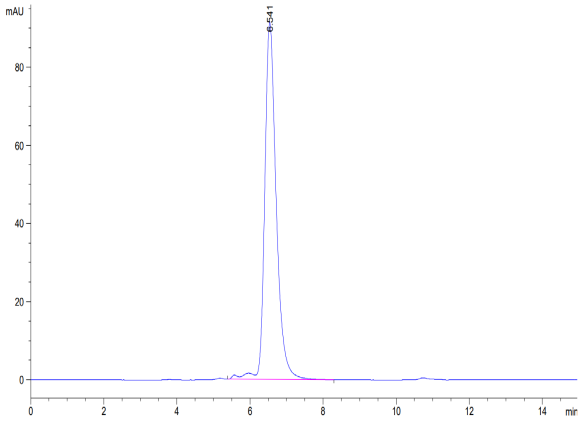
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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

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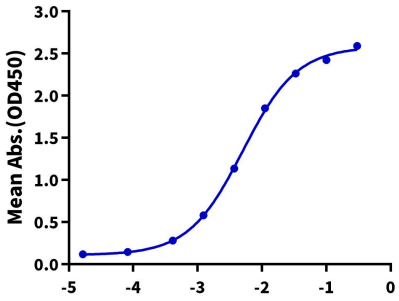
Assay Data

ELISA Data

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

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



Log Anti-HLA-A*02:01&B2M&LMP2 Antibody, hFc Tag Conc.(μg/ml)

Immobilized Human HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Tetramer, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Antibody, hFc Tag with the EC50 of 5.0ng/ml determined by ELISA.