Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer Protein

Cat. No. MHC-HM431T

Description

Source	Recombinant Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) 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 RMFPNAPYL peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&RMFPNAPYL
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 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

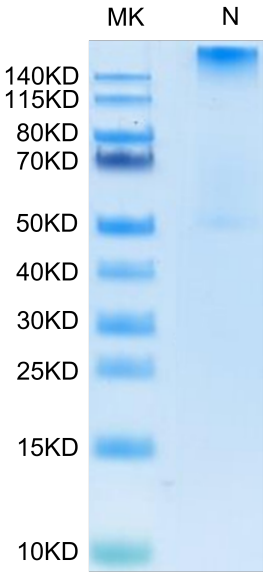
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 WT1 protein plays a role in cell growth, the process by which cells mature to perform specific functions (differentiation), and the self-destruction of cells (apoptosis). WT1 is differentially expressed in serous, endometrioid, clear cell, and mucinous carcinomas of the peritoneum, fallopian tube, ovary, and endometrium.The Human HLA-A*0201 WT-1 (RMFPNAPYL) complex Protein is a complex of HLA-A*0201 of the MHC Class I, B2M and RMFPNAPYL peptide of the WT-1.

Assay Data

Bis-Tris PAGE



Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

SEC-HPLC

Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer Protein

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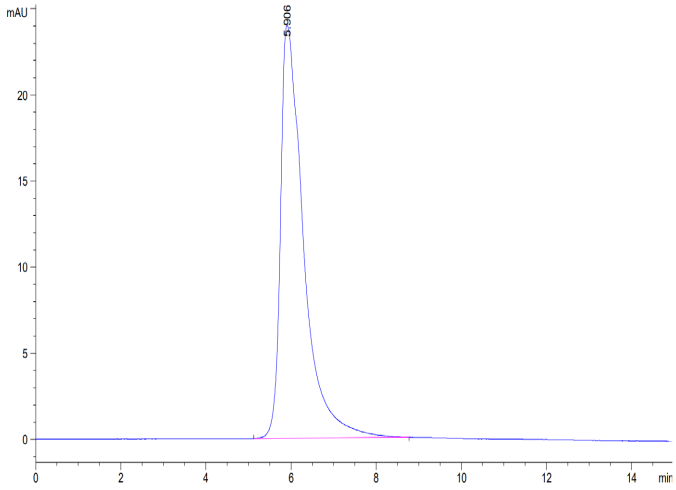
Assay Data

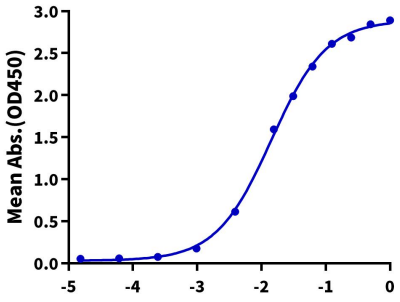


The purity of Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer was greater than 95% as determined by SEC-HPLC.

ELISA Data

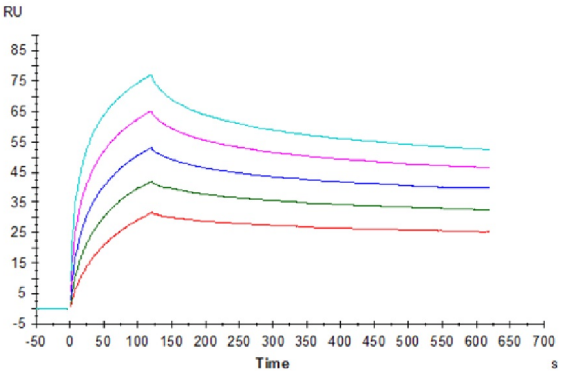
Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His Tag ELISA

0.1μg Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His Tag Per Well



Immobilized Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Antibody, hFc Tag with the EC50 of 14.2ng/ml determined by ELISA (QC Test).

SPR Data



Anti-HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Antibody captured on Protein A chip, can bind Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His Tag with an affinity constant of 0.18nM as determined in a SPR assay (Biacore T200).