Chimeric HLA-A*02:01 (mα3) &B2M&WT-1 (RMFPNAPYL) Monomer Protein

Cat. No. MHC-HM414

Description

Source	Recombinant Chimeric HLA-A*02:01(mα3)&B2M&WT-1 (RMFPNAPYL) 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 RMFPNAPYL peptide.
Accession	A0A140T913(Human HLA-A*02:01 α1&α2)&P01897(Mouse H-2Ld α3)&P61769(B2M)&RMFPNAPYL
Molecular Weight	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 51-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

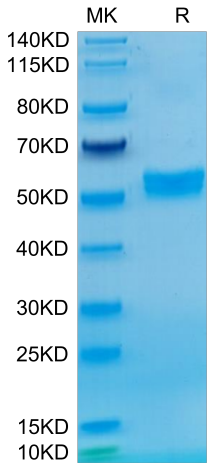
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days 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

Tris-Bis PAGE



Chimeric HLA-A*02:01 (mα3) &B2M&WT-1 (RMFPNAPYL) Monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Chimeric HLA-A*02:01 (mα3) &B2M&WT-1 (RMFPNAPYL) Monomer Protein

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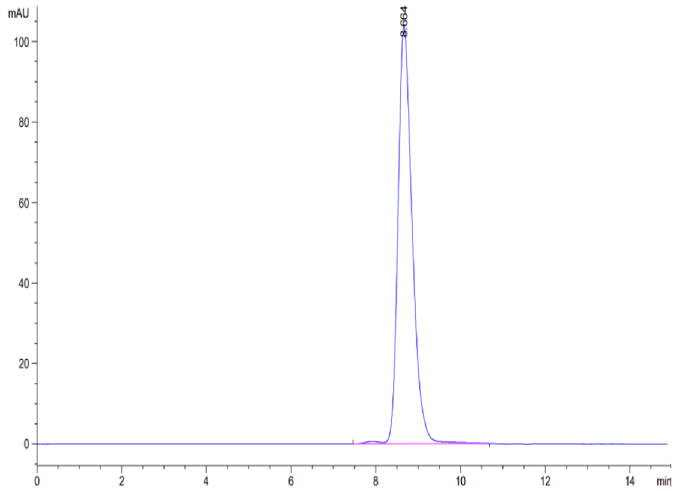
Assay Data

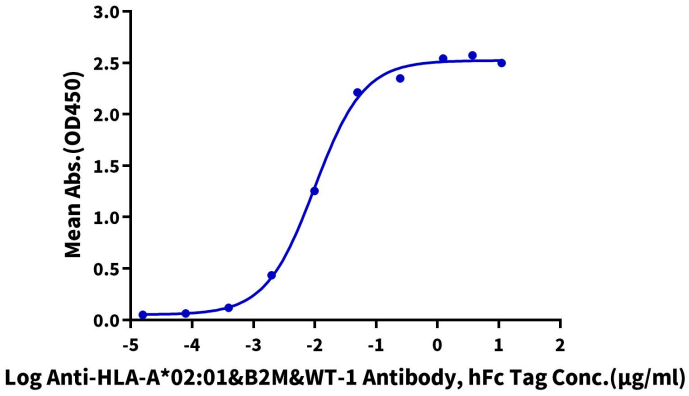


The purity of Chimeric HLA-A*02:01 (mα3) &B2M&WT-1 (RMFPNAPYL) Monomer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human&Mouse Chimeric HLA-A*02:01&B2M&WT-1, His Tag ELISA

0.5μg Human&Mouse Chimeric HLA-A*02:01&B2M&WT-1, His Tag Per Well



Immobilized Chimeric HLA-A*02:01 (mα3) &B2M&WT-1 (RMFPNAPYL) Monomer, His Tag at 5μg/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 9.9ng/ml determined by ELISA.