

Chimeric HLA-A*02:01 ($\alpha 3$) & B2M&WT-1 (RMFPNAPYL) Monomer Protein, Human&Mouse, MHC

General Information

Synonyms:	WAGR;WT33;AWT1;GUD;RMF;WT1;WIT-2;MHC;NPHS4GUD
Protein Construction:	Gly25-Thr206(Human HLA-A*02:01 $\alpha 1$ & $\alpha 2$)&Asp207-Glu299(Mouse H-2Ld $\alpha 3$), Ile21-Met119 (B2M) and RMFPNAPYL peptide
Species:	Human & Mouse
Expression Host:	HEK293 Cells
Accession:	A0A140T913(Human HLA-A*02:01 $\alpha 1$ & $\alpha 2$)&P01897(Mouse H-2Ld $\alpha 3$)&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.

QC Testing

Biological Activity:	Immobilized Chimeric HLA-A*02:01 ($\alpha 3$) & B2M&WT-1 (RMFPNAPYL) Monomer, His Tag at 5 μ g/ml (100 μ l/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.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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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.

Reference

Dao T, et al. Therapeutic bispecific T-cell engager antibody targeting the intracellular oncoprotein WT1[J]. Nature Biotechnology, 2015.

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