Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer Protein

Cat. No. MHC-HM407T



Description	
Source	Recombinant Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) 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 FMNKFIYEI peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&FMNKFIYEI
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 ug 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 receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

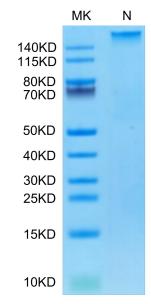
Alpha-fetoprotein (AFP), a specific liver cancer marker, T cells expressing AFP-CAR selectively degranulated, released cytokines, and lysed liver cancer cells that were HLA-A*02:01 /AFP while sparing cells from multiple tissue types that were negative for either expressed proteins.CAR T-cell immunotherapy targeting intracellular/secreted solid tumor antiqens can elicit a potent antitumor response.

intracellular/secreted solid tumor antigens can elicit a potent antitumor response.

Assay Data

Background

Bis-Tris PAGE



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

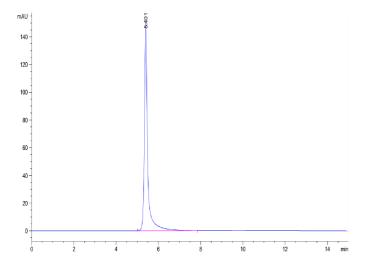
SEC-HPLC

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Assay Data

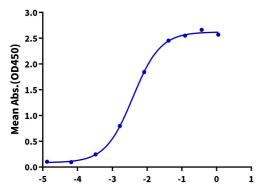


The purity of Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer is greater than 95% as determined by SEC-HPLC.

ELISA Data

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

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



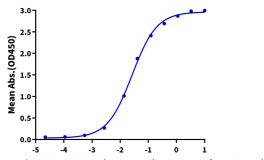
Log Anti-HLA-A*02:01&B2M&AFP Antibody, hFc Tag Conc.(µg/ml)

Immobilized Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&AFP (FMNKFIYEI) Antibody, hFc Tag with the EC50 of 3.9ng/ml determined by ELISA (QC Test).

ELISA Data

SPR Data

Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer, His Tag ELISA 0.2μg HLA-A*02:01&B2M&AFP TCR Per Well



 $Log\ Human\ HLA-A*02:01\&B2M\&AFP\ (FMNKFIYEI)\ Tetramer,\ His\ Tag\ Conc.(\mu g/ml)$

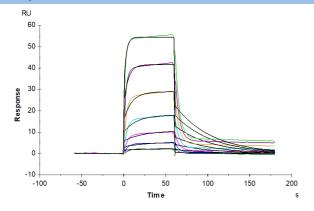
Immobilized HLA-A*02:01&B2M&AFP (FMNKFIYEI) TCR at 2µg/ml (100µl/well) on the plate. Dose response curve for Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer, His Tag with the EC50 of 26.6ng/ml determined by ELISA.

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Assay Data



Human HLA-A*02:01&B2M&AFP (FMNKFIEI) Tetramer, His Tag captured on CM5 Chip via Anti-His Antibody can bind HLA-A*02:01&B2M&AFP (FMNKFIYEI) TCR with an affinity constant of 0.111 μM as determined in SPR assay (Biacore T200).