

# Human HLA-A\*02:01&B2M&AFP (PLFQVPEPV) Monomer Protein

Cat. No. MHC-HM408

## Description

<b>Source</b>	Recombinant Human HLA-A*02:01&B2M&AFP (PLFQVPEPV) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and PLFQVPEPV peptide.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&PLFQVPEPV
<b>Molecular Weight</b>	The protein has a predicted MW of 50.4 kDa. Due to glycosylation, the protein migrates to 55-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

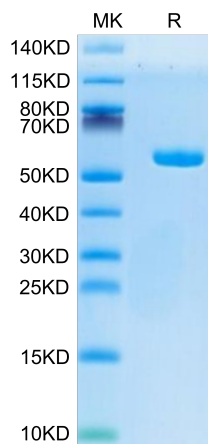
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

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 antigens can elicit a potent antitumor response.

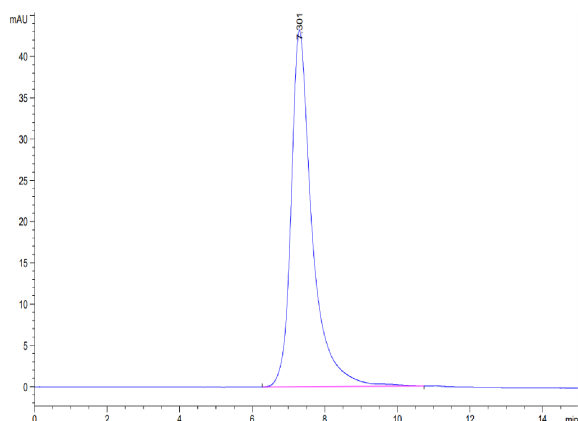
## Assay Data

### Bis-Tris PAGE



Human HLA-A\*02:01&B2M&AFP (PLFQVPEPV) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



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