

# Biotinylated Human AFP (HLA-A\*02:01) Protein

Cat. No. MHC-HM408B

## Description

<b>Source</b>	Recombinant Biotinylated Human AFP (HLA-A*02:01) Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. 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 53-63 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

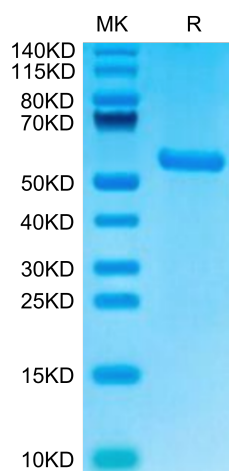
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated 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.

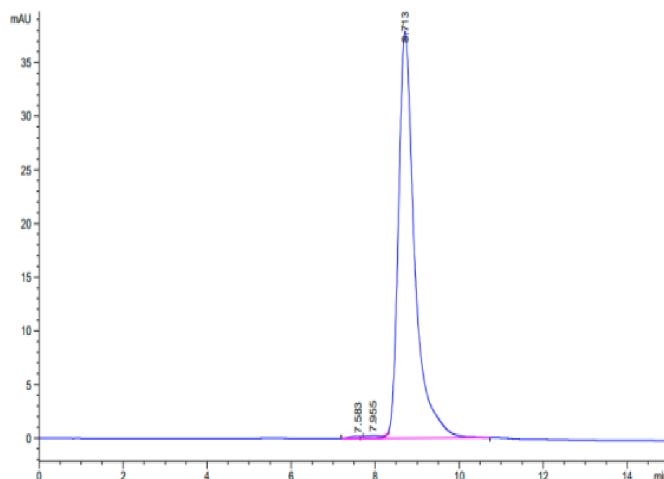
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



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