

## HLA-A\*02:01&amp;B2M&amp;AFP (FMNKFIYEI) Monomer Protein, Human, MHC (E. coli, His &amp; Avi)

## General Information

Synonyms:	Alpha-1-fetoprotein;Alpha-feto;HPAFP;AFP;AFPD;Alpha-fetoprotein;FETA
Protein Construction:	Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and FMNKFIYEI peptide
Species:	Human
Expression Host:	E. coli
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&FMNKFIYEI
Molecular Weight:	35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M)

## QC Testing

Biological Activity:	Immobilized Human HLA-A*02:01&B2M&AFP (FMNKFIYEI) Monomer, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 8.3 ng/ml determined by ELISA.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).

## Preparation and Storage

## Stability &amp; Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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