

HLA-A*02:01&B2M&AFP (PLFQVPEPV) Tetramer Protein, Human, MHC (His & Avi)

General Information

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms: | Alpha-1-fetoprotein;AFP;HPAFP;FETA;AFPD;MHC;Alpha-fetoprotein;Alpha-feto |
| Protein Construction: | Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and PLFQVPEPV peptide. Tetramer is assembled by biotinylated monomer and streptavidin. |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | A0A140T913(HLA-A*02:01)&P61769(B2M)&PLFQVPEPV |
| 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 Tris-Bis PAGE result. |

QC Testing

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1 EU/μg by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm 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 μg/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. |
| Shipping: | In general, Lyophilized powders are shipping with blue ice. Solutions are shipping 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.

Reference

Liu H, et al. Targeting Alpha-Fetoprotein (AFP)-MHC Complex with CAR T-Cell Therapy for Liver Cancer. Clin Cancer Res. 2017 Jan 15;23(2):478-488. doi: 10.1158/1078-0432.CCR-16-1203. Epub 2016 Aug 17. PMID: 27535982.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_email:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481