

# Human HLA-A\*02:01&B2M&HPV16 E7 (YMLDLQPET) Tetramer Protein



Cat. No. MHC-HM24MT

## Description

<b>Source</b>	Recombinant Human HPV16 E7(HLA-A*02:01) 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 YMLDLQPET peptide.
<b>Accession</b>	P04439-1(HLA-A*02:01)&P61769(B2M)&YMLDLQPET peptide
<b>Molecular Weight</b>	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.
<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

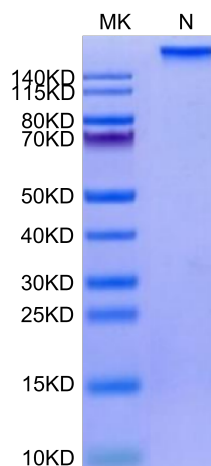
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

HPV16 E7 protein, one of the primary target proteins in molecular targeted therapy for HPV-induced cervical cancer. The affitoxin, ZHPV16E7 affitoxin384 was generated by fusing the modified Pseudomonas Exotoxin A (PE38KDEL) to the HPV16 E7-specific affibody.

## Assay Data

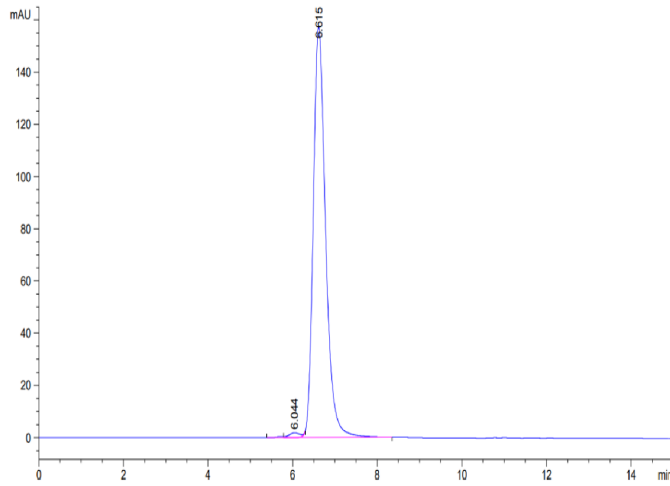
### Tris-Bis PAGE



Human HLA-A\*02:01&B2M&HPV16 E7 (YMLDLQPET) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Human HLA-A\*02:01&B2M&HPV16 E7 (YMLDLQPET) Tetramer is greater than 95% as determined by SEC-HPLC.