

# Human HLA-A\*02:01&B2M&HPV 16 E6 (KLPQLCTEL) Monomer Protein

Cat. No. MHC-HM436

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human HLA-A*02:01&B2M&HPV 16 E6 (KLPQLCTEL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.<br>It contains Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and KLPQLCTEL peptide. |
| <b>Accession</b>        | A0A140T913(HLA-A*02:01)&P61769(B2M)&KLPQLCTEL  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 50.50 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<br>> 95% as determined by HPLC  |

## Formulation and Storage

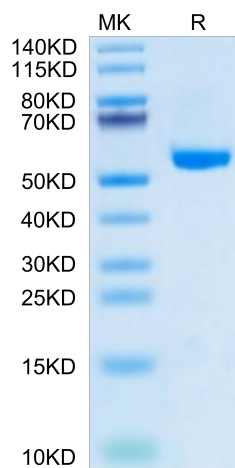
|                       |  |
|-----------------------|--|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration 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 3-6 months 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

Human papillomavirus (HPV) 16 infection is a necessary condition for the pathogenesis and development of cervical cancer. The E6 protein is expressed by the HPV16 E6 gene and promotes malignant phenotype transformation, which is an important mechanism for the occurrence and development of cervical cancer.

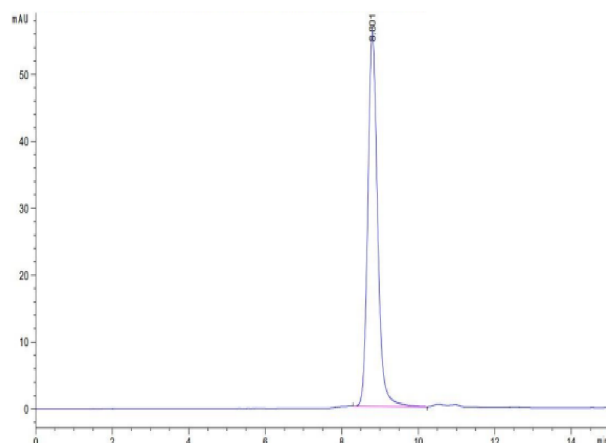
## Assay Data

### Tris-Bis PAGE



Human HLA-A\*02:01&B2M&HPV 16 E6 (KLPQLCTEL) Monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human HLA-A\*02:01&B2M&HPV 16 E6 (KLPQLCTEL) Monomer is greater than 95% as determined by SEC-HPLC.