

Rev02  
 Update: Aug,08,2025

## DATASHEET

# HLA-A\*02:01&B2M&HPV16 E7 (YMLDLQPET) Monomer[Biotin], His & Avi, Human

Cat. No.: Z06465

## Product Introduction

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Construction</b>         | <div style="display: flex; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; flex-grow: 1;">           HLA-A*02:01&amp;B2M&amp;HPV16 E7 (YMLDLQPET) Monomer [Gly25-Thr305(HLA-A*02:01), Ile21-Met119 (B2M) and YMLDLQPET peptide]<br/>           Accession # P04439-1(HLA-A*02:01) &amp;P61769(B2M) &amp;YMLDLQPET peptide         </div> <div style="background-color: #90c080; padding: 5px; margin-left: 5px; text-align: center;">His</div> <div style="background-color: #008000; padding: 5px; margin-left: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div> |
| <b>Conjugate</b>                    | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                       | > 95% as determined by BisTris PAGE<br>> 95% as determined by HPLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Endotoxin Level</b>              | Less than 1EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Expression System</b>            | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Theoretical Molecular Weight</b> | 50.50 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Apparent Molecular Weight</b>    | Due to glycosylation, the protein migrates to 53-63 kDa based on Bis-Tris PAGE result.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>                  | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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 &amp; Stability</b>      | Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Background

**Target 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.

**Synonyms :** HPV16; E7; MHC

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

Confidential and Privileged



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