# Biotinylated Human HLA-A*02:01&B2M&MAGE-A3 (KVAELVHFL) Monomer Protein

**Cat. No.** MHC-HM461B

## Description

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| **Source** | Recombinant Biotinylated Human HLA-A*02:01&B2M&MAGE-A3 (KVAELVHFL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. |
| | It contains Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and KVAELVHFL peptide. |
| **Accession** | A0A140T913(HLA-A*02:01)&P61769(B2M)&KVAELVHFL |
| **Molecular Weight** | The protein has a predicted MW of 50.50 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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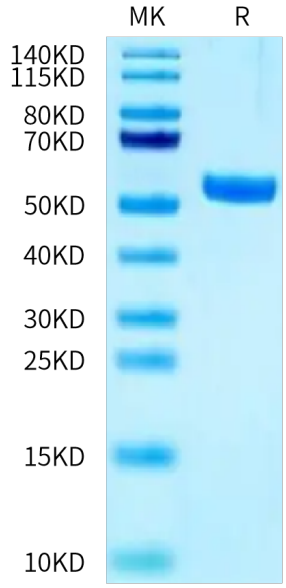
| **Formulation** | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Melanoma antigen family A, 3 (MAGE-A3) is a cancer-testis antigen whose expression has been demonstrated in a wide array of malignancies including melanoma, brain, breast, lung and ovarian cancer. In addition, its ability to elicit spontaneous humoral and cellular immune responses has been shown in cancer patients.

## Assay Data

**Bis-Tris PAGE**




Biotinylated Human HLA-A*02:01&B2M&MAGE-A3 (KVAELVHFL) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

# Biotinylated Human HLA-A*02:01&B2M&MAGE-A3 (KVAELVHFL) Monomer Protein

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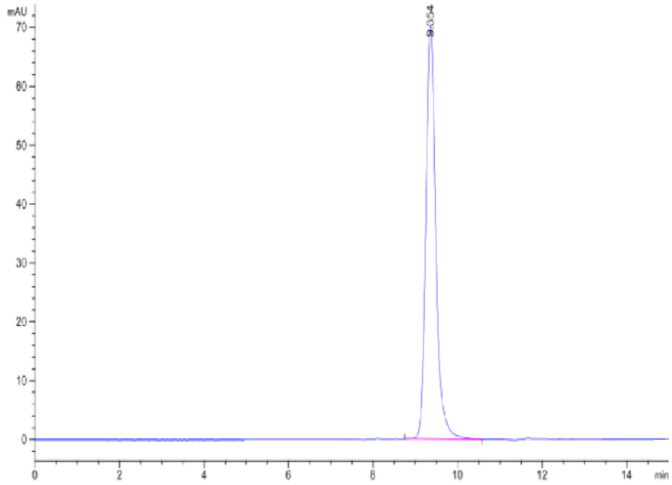
## Assay Data




The purity of Biotinylated Human HLA-A*02:01&B2M&MAGE-A3 (KVAELVHFL) Monomer is greater than 95% as determined by SEC-HPLC.