

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



Cat. No. MHC-HM461B

Description

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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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

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.

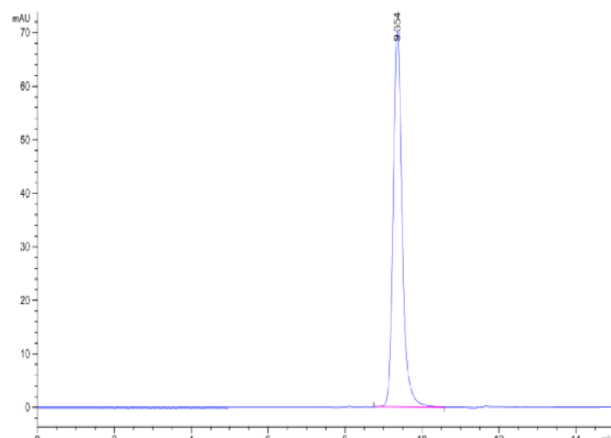
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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