

Cat. No.    MHC-HE047B

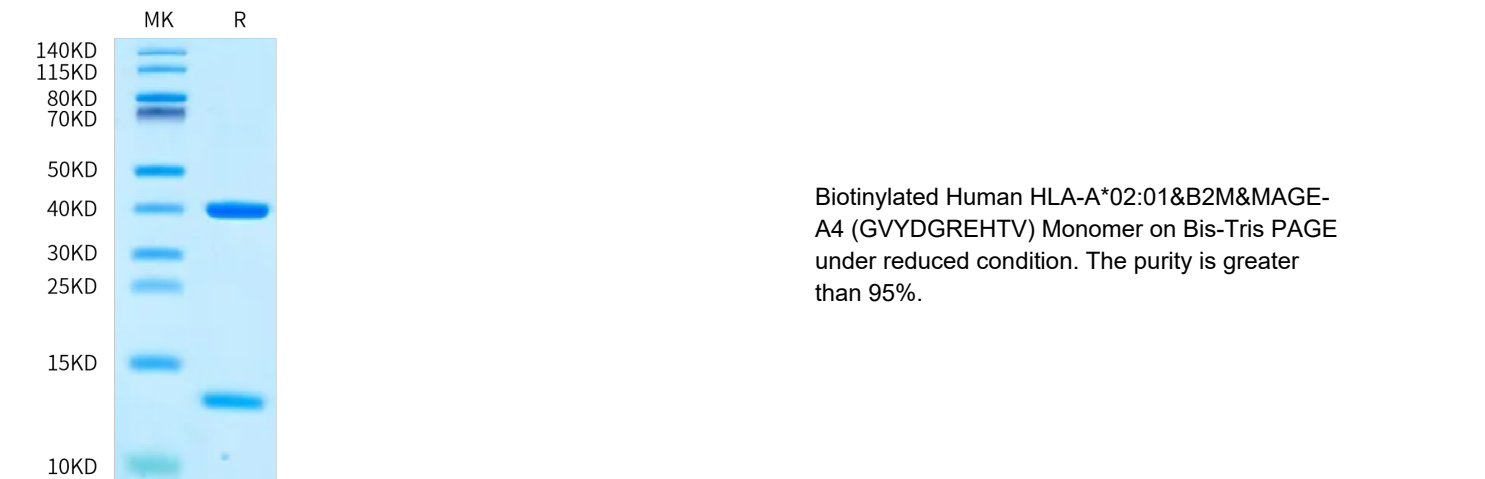
Description	
Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and GVYDGREHTV peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&GVYDGREHTV
Molecular Weight	The protein has a predicted MW of 35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M) same as 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	
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

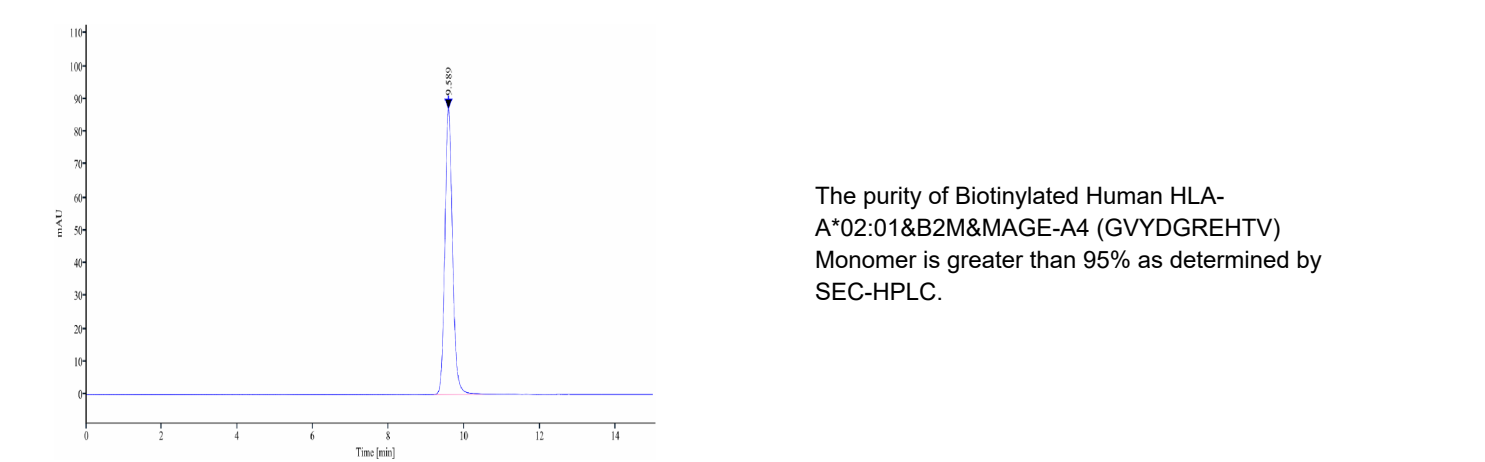
Background	
Melanoma-associated antigen 4 is a protein that in humans is encoded by the MAGEA4 gene.The MAGE- A4 antigen is among the most commonly expressed cancer testis antigens. The Human HLA-A*0201 MAGE-A4 (GVYDGREHTV) complex Protein is a complex of HLA-A*0201 of the MHC Class I, B2M and GVYDGREHTV peptide of the MAGE-A4.	

Assay Data

Bis-Tris PAGE



SEC-HPLC

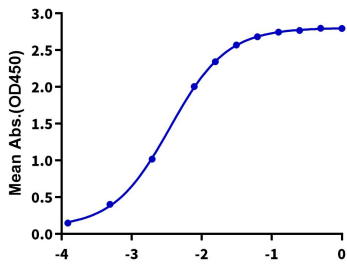


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Assay Data

ELISA Data

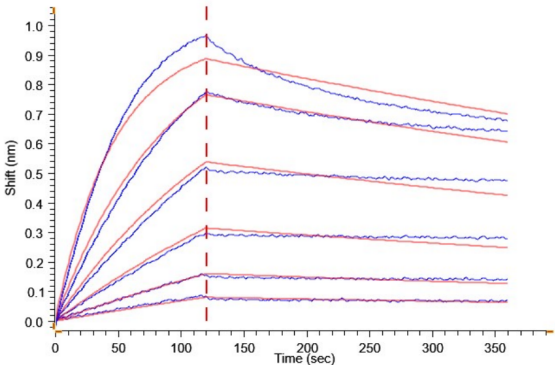
**Biotinylated Human HLA-A\*02:01&B2M&MAGE-A4 (GVYDGREHTV), His-Avi Tag ELISA**  
0.05µg Biotinylated Human HLA-A\*02:01&B2M&MAGE-A4 (GVYDGREHTV), His-Avi Tag Per Well



Log Anti-HLA-A\*02:01&B2M&MAGE-A4 Antibody, hFc Tag Conc.(µg/ml)

Immobilized Biotinylated Human HLA-A\*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer, His-Avi Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-HLA-A\*02:01&B2M&MAGE-A4 (GVYDGREHTV) Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA.

BLI Data



Loaded Anti-HLA-A\*02:01&B2M&MAGE-A4 (GVYDGREHTV) Antibody, hFc Tag on ProA-Biosensor can bind Biotinylated Human HLA-A\*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer, His Avi Tag with an affinity constant of 2.40 nM as determined in BLI assay (Gator® Prime).