

Chimeric HLA-A*02:01 ($\alpha 3$) & mB2M&MAGE-A4 (KVLEHVVRV) Monomer Protein



Cat. No. MHC-HM106

Description

Source	Recombinant Chimeric HLA-A*02:01 ($\alpha 3$) & mB2M&MAGE-A4 (KVLEHVVRV) Monomer Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly25-Thr206 (Human HLA-A*02:01 $\alpha 1$ & $\alpha 2$) and Asp207-Glu299 (Mouse H-2Ld $\alpha 3$), Ile21-Met119 (mB2M) and KVLEHVVRV peptide.
Accession	A0A140T913(Human HLA-A*02:01 $\alpha 1$ & $\alpha 2$)&P01897(Mouse H-2Ld $\alpha 3$)&&P01887(Mouse B2M)&KVLEHVVRV
Molecular Weight	The protein has a predicted MW of 48.00 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μ g 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 μ m filtered solution in PBS (pH 7.4).
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

MAGE-A4 and MAGE-A8 are type I members of the melanoma associated antigen (MAGE) family. The MAGE family is a large, highly conserved group of proteins that share a common MAGE homology domain. Both MAGE-A4 and MAGE-A8 antigen-presenting peptides can be presented by HLA-A*02:01.

Assay Data

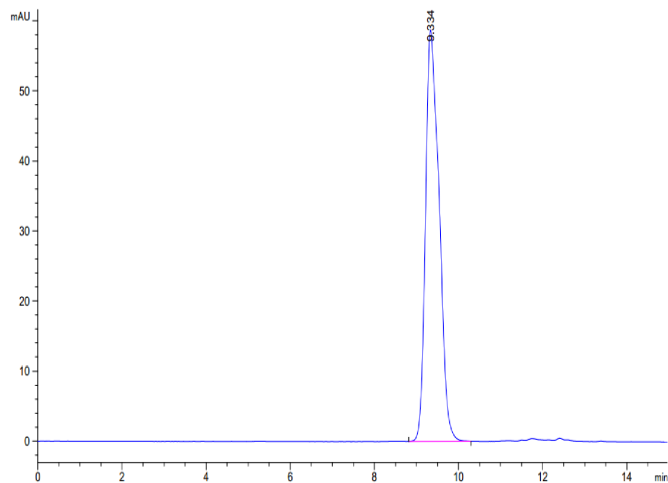
Bis-Tris PAGE



Chimeric HLA-A*02:01 ($\alpha 3$) & mB2M&MAGE-A4 (KVLEHVVRV) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

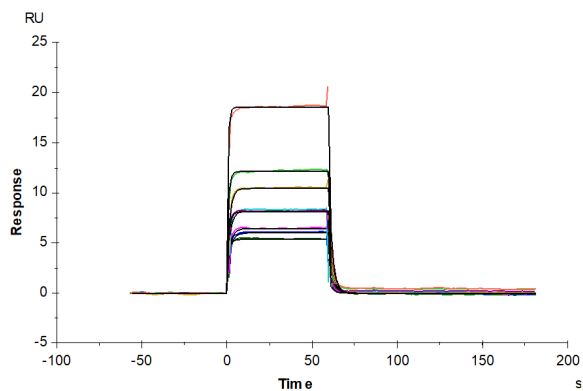
SEC-HPLC

Assay Data



The purity of Chimeric HLA-A*02:01 ($\alpha 3$) & mB2M&MAGE-A4 (KVLEHVVRV) Monomer is greater than 95% as determined by SEC-HPLC.

SPR Data



HLA-A*02:01&B2M&MAGE-A4 (KVLEHVVRV) TCR immobilized on CM5 Chip can bind Chimeric HLA-A*02:01 ($\alpha 3$) & mB2M&MAGE-A4 (KVLEHVVRV) Monomer, His Tag with an affinity constant of $4.76 \mu\text{M}$ as determined in SPR assay (Biacore T200).