Chimeric HLA-A*02:01 (mα3) &mB2M&MAGE-A1 (KVLEYVIKV) Monomer Protein

Cat. No. MHC-HM103

Description

Source	Recombinant Chimeric HLA-A*02:01 (mα3) &mB2M&MAGE-A1 (KVLEYVIKV) Monomer Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Gly25-Thr206 (Human HLA-A*02:01 α1&α2) and Asp207-Glu299 (Mouse H-2Ld α3), Ile21-Met119 (mB2M) and KVLEYVIKV peptide.
Accession	A0A140T913(Human HLA-A*02:01 α1&α2)&P01897(Mouse H-2Ld α3)&&P01887(Mouse B2M)&KVLEYVIKV
Molecular Weight	The protein has a predicted MW of 48.00 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

Formulation and Storage

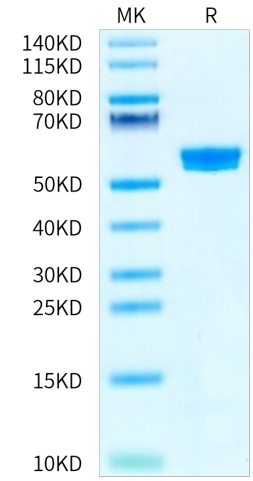
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

MAGE-A1 belongs to the chromosome X-clustered genes of cancer-testis antigen family and is normally expressed in the human germ line but is also overexpressed in various tumors.

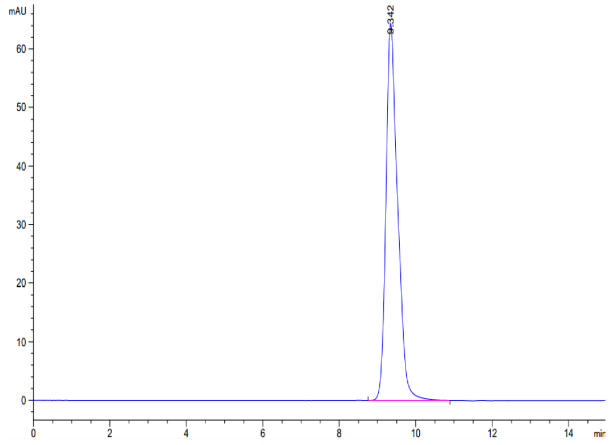
Assay Data

Tris-Bis PAGE



Chimeric HLA-A*02:01 (mα3) &mB2M&MAGE-A1 (KVLEYVIKV) Monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Chimeric HLA-A*02:01 (mα3) &mB2M&MAGE-A1 (KVLEYVIKV) Monomer is greater than 95% as determined by SEC-HPLC.

Chimeric HLA-A*02:01 (mα3) &mB2M&MAGE-A1 (KVLEYVIKV) Monomer Protein

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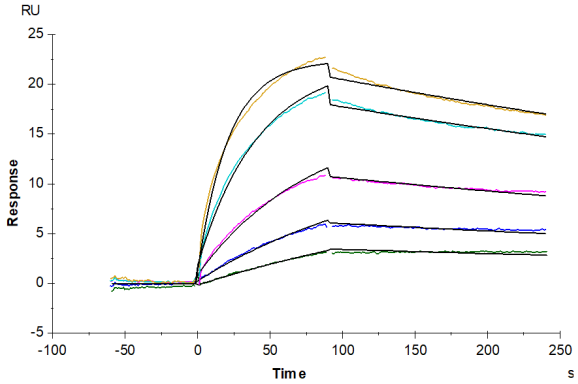
Assay Data

SPR Data



Chimeric HLA-A*02:01(mα3)&mB2M&MAGE-A1 (KVLEYVIKV) Monomer, His Tag captured on CM5 Chip via Anti-His Antibody can bind HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) TCR with an affinity constant of 58.68 nM as determined in SPR assay (Biacore T200).