

Human HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Monomer Protein

Cat. No. MHC-HM445

Description

Source	Recombinant Human HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) 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 KVLEYVIKV peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&KVLEYVIKV
Molecular Weight	The protein has a predicted MW of 50.50 kDa. Due to glycosylation, the protein migrates to 53-65 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

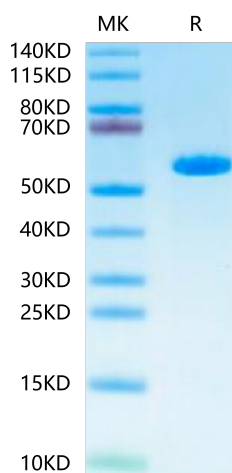
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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

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.

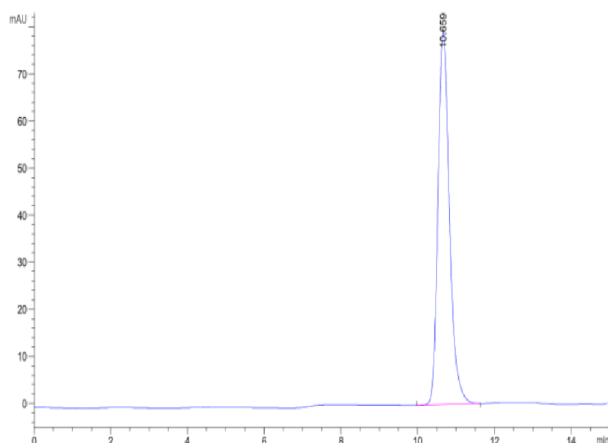
Assay Data

Tris-Bis PAGE



Human HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

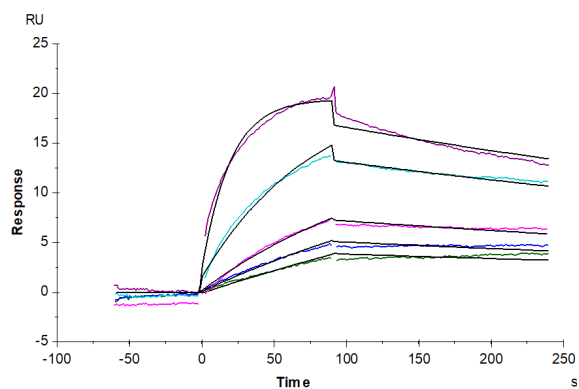
SEC-HPLC



The purity of Human HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Monomer, His Tag captured on CM5 Chip via Anti-His Antibody can bind HLA-A*02:01&B2M&MAGE-A1 TCR with an affinity constant of 116.2 nM as determined in SPR assay (Biacore T200).