

Human MAGE-A4 (HLA-A*02:01) Tetramer Protein

Cat. No. MHC-HM401T

Description

Source	Recombinant Human MAGE-A4 (HLA-A*02:01) Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal, tetramer is assembled by biotinylated monomer and streptavidin. 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 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition 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

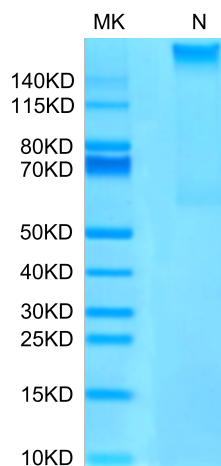
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

Tris-Bis PAGE



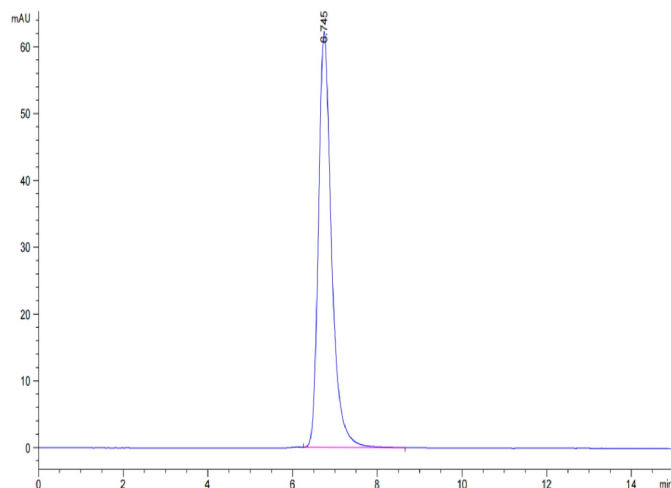
Human MAGE-A4 (HLA-A*02:01) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.

SEC-HPLC

Human MAGE-A4 (HLA-A*02:01) Tetramer Protein

Cat. No. MHC-HM401T

Assay Data

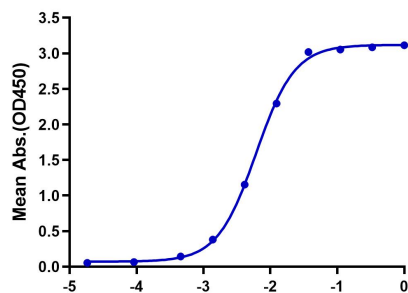


The purity of Human MAGE-A4 (HLA-A*02:01) Tetramer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human MAGE-A4 (HLA-A*02:01) Tetramer, His Tag ELISA

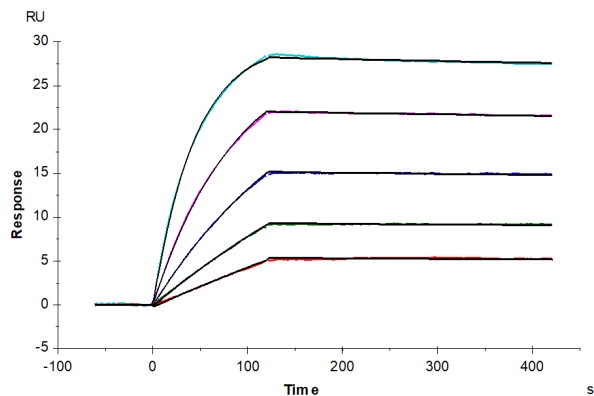
0.05µg Human MAGE-A4 (HLA-A*02:01) Tetramer, His Tag Per Well



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

Immobilized Human MAGE-A4 (HLA-A*02:01) Tetramer, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MAGE-A4 (HLA-A*02:01) Antibody, hFc Tag with the EC50 of 6.1ng/ml determined by ELISA.

SPR Data



Anti-MAGE-A4 (HLA-A*02:01) Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human MAGE-A4 (HLA-A*02:01) Tetramer, His Tag with an affinity constant of 8.49pM as determined in SPR assay (Biacore T200).