

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

Catalog No.: RP02692 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human		A0A140T913(HLA-A*02:01)&P61769(B2M)&GVYDGREHTV

Tags

C-His&Avi

Synonyms

HLA0201; MHC I; MAGE-A4; CT1.4; MAGE4A; MAGE4B; MAGE-X2; member 4

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Calculated MW	Observed MW
258 kDa	260-265 kDa

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

Basic Information

Description

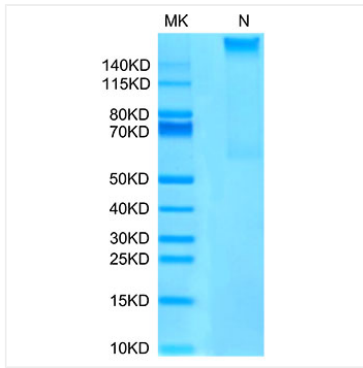
Recombinant Human MAGE-A4 (HLA-A*02:01) Complex Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and GVYDGREHTV peptide.

Bio-Activity

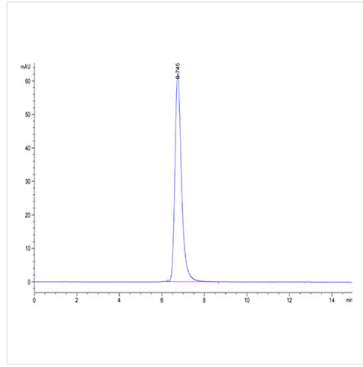
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

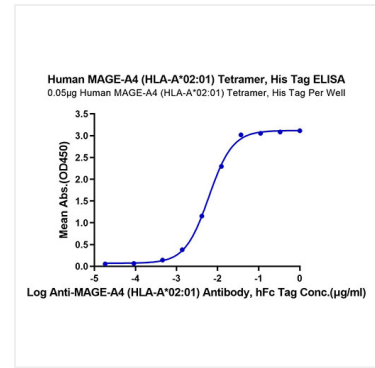
Validation Data



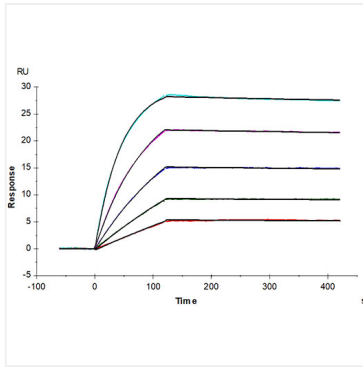
Human MAGE-A4 (HLA-A*02:01) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.



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



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.



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).