

## HLA-A\*02:01&amp;B2M&amp;MAGE-A4 (GVYDGREHTV) Tetramer Protein, Human, MHC (His &amp; Avi)

## General Information

Synonyms:	CT1.4;MAGE-A4;MAGE4A;HLA0201;MAGE4B;MHC I;MAGE-X2;member 4
Protein Construction:	Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and GVYDGREHTV peptide. Tetramer is assembled by biotinylated monomer and streptavidin.
Species:	Human
Expression Host:	HEK293 Cells
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.

## QC Testing

Biological Activity:	Immobilized Human HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Tetramer, His Tag at 0.5 µg/ml (100µl/Well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Antibody, hFc Tag with the EC50 of 6.1ng/ml determined by ELISA (QC Test). Anti-HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Tetramer, His Tag with an affinity constant of 8.49pM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein 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.

### Reference

Kageyama S, et al. Adoptive Transfer of MAGE-A4 T-cell Receptor Gene-Transduced Lymphocytes in Patients with Recurrent Esophageal Cancer[J]. Clinical Cancer Research, 2015, 21(10):2268.

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