Data Sheet (Cat.No.TMPK-01547)

TargetMol

HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer Protein, Human, MHC (His & Avi),

General Information

Synonyms:	MAGE-A4;MAGE-X2;member 4;MAGE4A;MHC I;CT1.4;MAGE4B;HLA0201
Protein Construction:	Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and GVYDGREHTV peptide
Species:	Human
Expression Host:	HEK293 Cells
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&GVYDGREHTV
Molecular Weight:	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Anti-HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Antibody, hFc Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer, His Tag with the EC50 of 0.19μg/ml determined by ELISA.
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.

Actual storage temperature shall be subject to the COA.

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481