

HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Tetramer Protein, Human, MHC (His & Avi)

General Information

Synonyms:	MZ2-E;MAGE1A;MAGE-1 antigen;MAGE A1;MAGE-A1;MAGE-1;MAGE1;CT1.1
Protein Construction:	Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and KVLEYVIKV peptide. Tetramer is assembled by biotinylated monomer and streptavidin.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&KVLEYVIKV
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:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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

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.

Reference

Wang D, et al. MAGE-A1 promotes melanoma proliferation and migration through C-JUN activation. Biochem Biophys Res Commun. 2016 May 13;473(4):959-965. doi: 10.1016/j.bbrc.2016.03.161. Epub 2016 Apr 1. PMID: 27045082.

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