

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

General Information

Synonyms: CT1.1;MAGE1;MAGE-1;MAGE-A1;MAGE-1 antigen;MAGE A1;MAGE1A;MZ2-E

Protein Construction: Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and KVLEYVIKV peptide

Species: Human

Expression Host: HEK293 Cells

Accession: A0A140T913(HLA-A*02:01)&P61769(B2M)&KVLEYVIKV

Molecular Weight: The protein has a predicted MW of 50.50 kDa. Due to glycosylation, the protein migrates to 53-65 kDa 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.

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

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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