

HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer Protein, Human, MHC (His & Avi), Biotinylated

General Information

Synonyms:	HLA0201;ME20-M;gp100;MHC I;Glycoprotein 100;P100
Protein Construction:	Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and YLEPGPVTA peptide
Species:	Human
Expression Host:	HEK293 Cells
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&YLEPGPVTA
Molecular Weight:	The protein has a predicted MW of 50.4 kDa. Due to glycosylation, the protein migrates to 52-62 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Tebentafusp, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer, His Tag with the EC50 of 11.8ng/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

Glycoprotein 100, gp100 or Melanocyte protein PMEL is 661 amino acids long and is a type I transmembrane glycoprotein enriched in melanosomes, which are the melanin-producing organelles in melanocytes. This protein is involved in melanosome maturation. The Human HLA-A*0201 gp100 (YLEPGPVTA) complex Protein is a complex of HLA-A*0201 of the MHC Class I and YLEPGPVTA peptide of the gp100.

Reference

Abad J D, et al. T-Cell Receptor Gene Therapy of Established Tumors in a Murine Melanoma Model[J]. Journal of Immunotherapy, 2008, 31:1-6.

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