

HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer Protein, Human, MHC (His & Avi)

General Information

Synonyms:	LAGE2A;ESO1CTAG;LAGE-2;CTAG1;CT6.1;MHC;MY-ESO-1;NY-ESO-1;CTAG1B
Protein Construction:	Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and SLLMWITQC peptide
Species:	Human
Expression Host:	HEK293 Cells
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&SLLMWITQC
Molecular Weight:	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 51-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Anti-HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Antibody, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His Tag with the EC50 of 8.4ng/ml determined by ELISA (QC Test). Anti-HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His Tag with an affinity constant of 13.43 nM 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, 100 mM L-arginine (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

A DRUG SCREENING EXPERT

NY-ESO-1 or New York esophageal squamous cell carcinoma 1 is a well-known cancer-testis antigen (CTAs) with re-expression in numerous cancer types. Its ability to elicit spontaneous humoral and cellular immune responses, together with its restricted expression pattern, have rendered it a good candidate target for cancer immunotherapy.

Reference

Thomas R, et al. NY-ESO-1 Based Immunotherapy of Cancer: Current Perspectives. Front Immunol. 2018 May 1;9:947. doi: 10.3389/fimmu.2018.00947. PMID: 29770138; PMCID: PMC5941317.

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