

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

General Information

Synonyms:	MHC;LAGE-2;NY-ESO-1;ESO1CTAG;MY-ESO-1;CTAG1B;CTAG1;CT6.1;LAGE2A
Protein Construction:	Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and SLLMWITQC peptide. Tetramer is assembled by biotinylated monomer and streptavidin.
Species:	Human
Expression Host:	E. coli
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&SLLMWITQC
Molecular Weight:	The protein has a predicted MW of 258 kDa. The protein migrates to 160-250 kDa (HLA-A*02:01&streptavidin tetramer) and 11.9 kDa (B2M) based on Tris-Bis PAGE result under Non reducing (N) condition.

QC Testing

Biological Activity:	Immobilized Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Tetramer, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Antibody, hFc Tag with the EC50 of 1.2ng/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 20 mM Tris, 150 mM NaCl (pH 8.0). 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

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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