

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

### General Information

**Synonyms:** CTAG1B;CT6.1;MY-ESO-1;LAGE2A;NY-ESO-1;MHC;LAGE-2;ESO1CTAG;CTAG1

**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 Biotinylated Human HLA-A\*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His Tag with the EC50 of 18.1ng/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

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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