

HLA-A*02:01&B2M&MART-1 (ELAGIGILTV) Tetramer Protein, Human, MHC (His & Avi)

General Information

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| Synonyms: | SK29-AA;MLANA;LB39-AA;Melan-A;MART1 |
| Protein Construction: | Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and ELAGIGILTV peptide. Tetramer is assembled by biotinylated monomer and streptavidin. |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | A0A140T913(HLA-A*02:01)&P61769(B2M)&ELAGIGILTV |
| Molecular Weight: | The protein has a predicted MW of 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Tris-Bis PAGE result. |

QC Testing

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| 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

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| 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> |

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| Shipping: | In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice. |
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Protein Background

Melanoma antigen recognized by T cell-1 (Mart-1), one of the melanosome-specific proteins, also recognized by cytotoxicity T lymphocytes as a marker. Mart-1 is considered to play a critical role in the immunotherapy for melanoma.

Reference

Wang J, et al. Differential expression of Mart-1 in human uveal melanoma cells. Mol Med Rep. 2011 Sep-Oct;4(5): 799-803. doi: 10.3892/mmr.2011.504. Epub 2011 Jun 7. PMID: 21667026.

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