Human HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Tetramer Protein

Cat. No. MHC-HM459T

Description

Source	Recombinant Human HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus, tetramer is assembled by biotinylated monomer and streptavidin.
	It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and GLYDGMEHL peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&GLYDGMEHL
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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

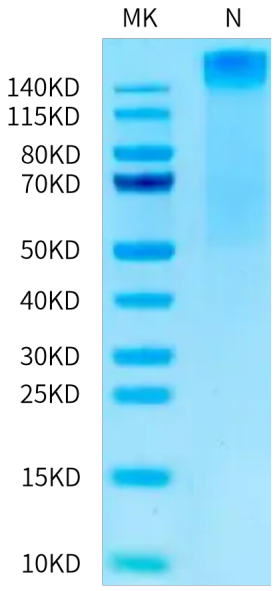
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

MAGE-A10 is a subtype of the Melanoma-associated antigen A (MAGE-A), a class of tumor antigens that are extensively expressed in various histological types of tumors and represents an attractive target for tumor immunotherapy. High-level expression of MAGE-A10 improved the anti-tumor immune cytotoxicity of MAGE-A10-specific CTLs in lung cancer cell lines and primary lung cancer cells.

Assay Data

Bis-Tris PAGE



Human HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

SEC-HPLC

Human HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Tetramer Protein

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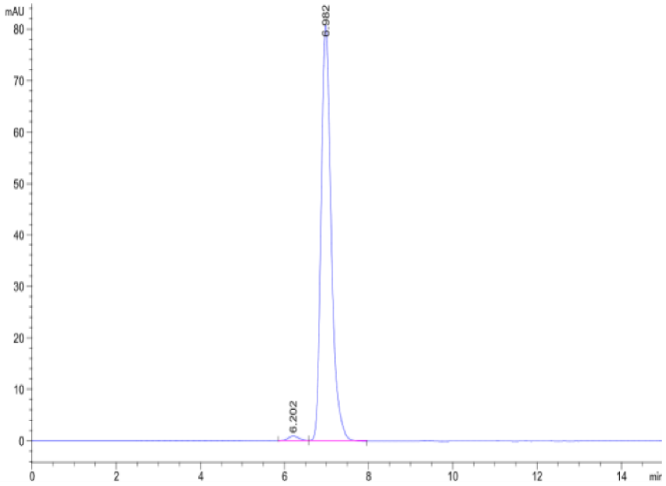
Assay Data



The purity of Human HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Tetramer is greater than 95% as determined by SEC-HPLC.