

Human HLA-A*03:01&B2M&gp100 (ALLAVGATK) Tetramer Protein

Cat. No. MHC-HM463T

Description

Source	Recombinant Human HLA-A*03:01&B2M&gp100 (ALLAVGATK) 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*03:01), Ile21-Met119 (B2M) and ALLAVGATK peptide.
Accession	NP_002107.3(HLA-A*03:01)&P61769(B2M)&ALLAVGATK
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

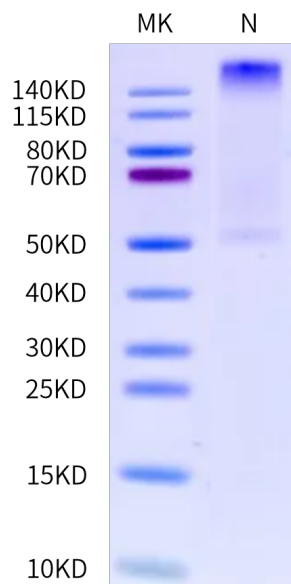
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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

Immunization against the ALLAVGATK peptide may occur in melanoma patients and that the immunogenicity of this peptide is similar to that of the majority of melanoma differentiation antigens defined to date. Therefore, the use of ALLAVGATK in active immunotherapy for HLA-A3 melanoma patients, for whom no other immunogenic peptide has been so far described, remains a distinct possibility, providing that patients treated in vivo with this peptide develop a better in vitro response than already demonstrated for HLA-A2 epitopes generated from this same antigenic protein.

Assay Data

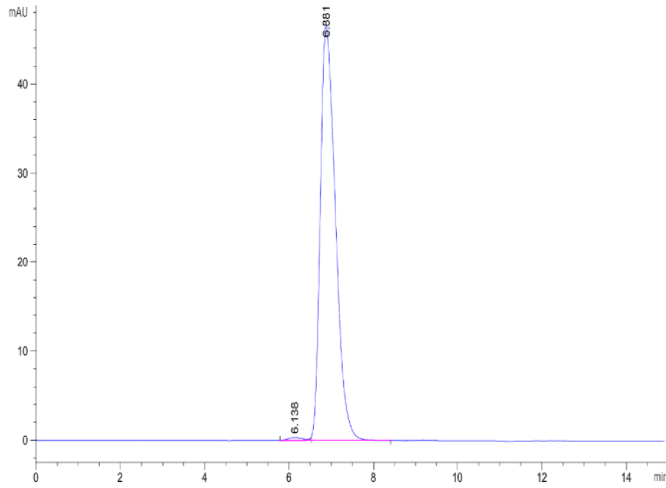
Bis-Tris PAGE



Human HLA-A*03:01&B2M&gp100 (ALLAVGATK) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human HLA-A*03:01&B2M&gp100 (ALLAVGATK) Tetramer is greater than 95% as determined by SEC-HPLC.