

Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer Protein



Cat. No. MHC-HE460B

Description

Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and YLEPGPVTA peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&YLEPGPVTA
Molecular Weight	The protein has a predicted MW of 35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M) same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

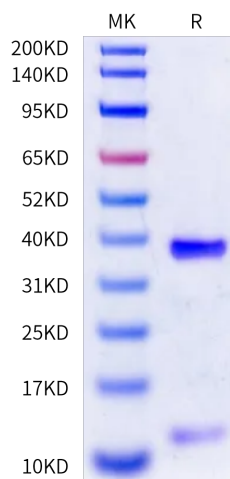
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Glycoprotein 100, gp100 or Melanocyte protein PMEL is 661 amino acids long and is a type I transmembrane glycoprotein enriched in melanosomes, which are the melanin-producing organelles in melanocytes. This protein is involved in melanosome maturation. The Human HLA-A*0201 gp100 (YLEPGPVTA) complex Protein is a complex of HLA-A*0201 of the MHC Class I and YLEPGPVTA peptide of the gp100.

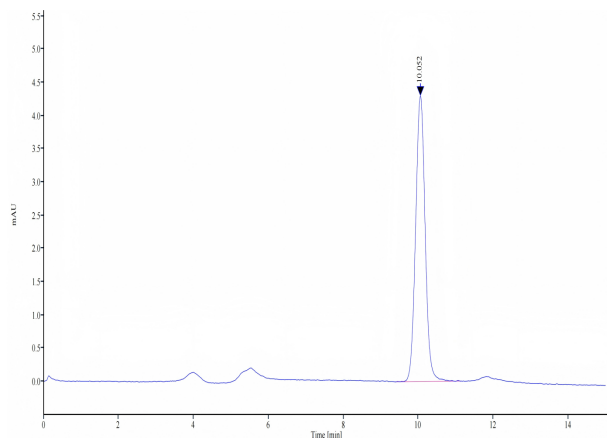
Assay Data

Bis-Tris PAGE



Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer is greater than 95% as determined by SEC-HPLC.

Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer Protein

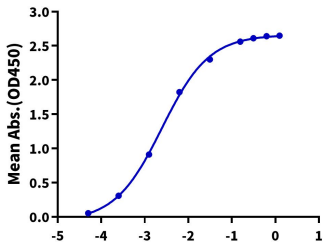


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Assay Data

ELISA Data

Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer, His Avi Tag ELISA
0.1µg Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer, His Avi Tag Per Well



Log Anti-HLA-A*02:01&B2M&GP100 (YLEPGPVTA)Antibody, hFc Tag Conc.(µg/ml)

Immobilized Biotinylated Human HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer, His Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Antibody, hFc Tag with the EC50 of 2.5ng/ml determined by ELISA.