

Biotinylated Human HLA-B*27:05&B2M&YEIH (LRVMMLAPF) Monomer Protein



Cat. No. MHC-HE472B

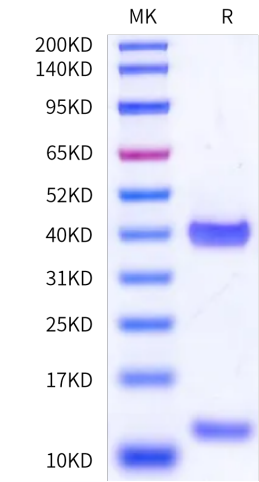
Description	
Source	Recombinant Biotinylated Human HLA-B*27:05&B2M&YEIH (LRVMMLAPF) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Val309(HLA-B*27:05), Ile21-Met119(B2M) and LRVMMLAPF peptide.
Accession	AAA36221.1(HLA-B*27:05)&P61769(B2M)&LRVMMLAPF
Molecular Weight	The protein has a predicted MW of 36.08 kDa (HLA-B*27:05) 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	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
YeiH is a conserved bacterial inner membrane protein widely distributed in gut microflora like Escherichia coli. Its immunogenic segment LRVMMLAPF (YeiH232-240) is an HLA-B*27-bound microbial epitope. By mimicking self-antigens, this bacterial peptide serves as an environmental trigger that activates cross-reactive, pathogenic CD8+ T cells, driving the immune response in conditions such as ankylosing spondylitis (AS) and acute anterior uveitis (AAU).	

Assay Data

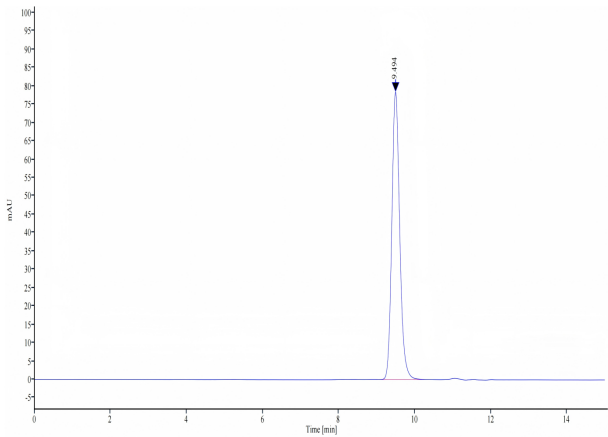
Bis-Tris PAGE



Biotinylated Human HLA-B*27:05&B2M&YEIH (LRVMMLAPF) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Biotinylated Human HLA-B*27:05&B2M&YEIH (LRVMMLAPF) Monomer is greater than 95% as determined by SEC-HPLC.