Human HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer Protein

Cat. No. MHC-HM458

Description

Source	Recombinant Human HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and NLVPMVATV peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&NLVPMVATV
Molecular Weight	The protein has a predicted MW of 50.35 kDa. Due to glycosylation, the protein migrates to 53-63 kDa based on 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

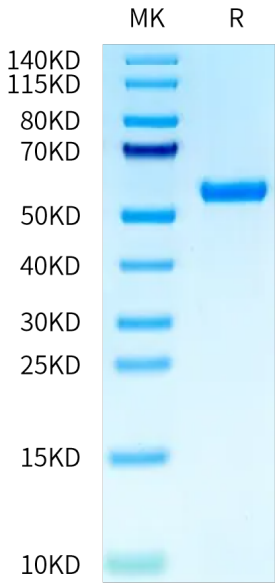
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

Human cytomegalovirus (CMV) is one of the major causes of severe complications in immunocompromised patients, such as recipients of hematopoietic cells, solid organ transplantation, and HIV-infected individuals. CMV is also a major pathogen in congenital infection. It can cause life-threatening diseases and severe neurological sequelae in newborn infants. CMV phosphoprotein pp65 is thought to be a major antigen for CMV-specific cellular immunity.

Assay Data

Bis-Tris PAGE



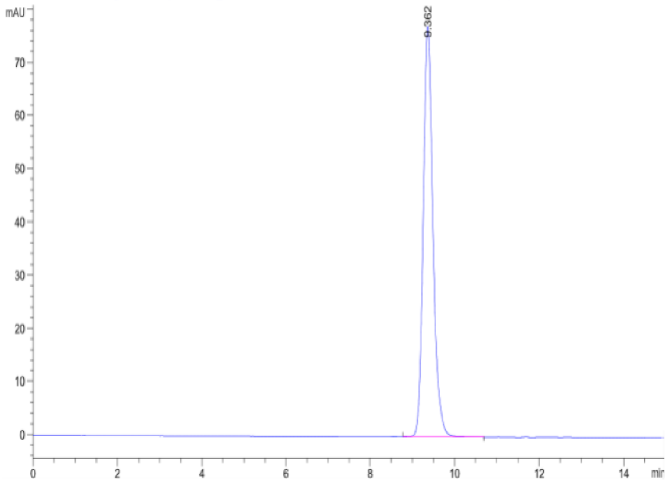
Human HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Human HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer Protein

Cat. No. MHC-HM458

Assay Data



The purity of Human HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer is greater than 95% as determined by SEC-HPLC.