Biotinylated Mouse H-2K(b)&B2M&OVA (SIINFEKL) Monomer Protein

Cat. No. MHC-MM453B

Description

Source	Recombinant Biotinylated Mouse H-2K(b)&B2M&OVA (SIINFEKL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains His24-Pro297 (H-2K(b)), Ile21-Met119 (B2M) and SIINFEKL peptide.
Accession	P01901(H-2K(b))&P01887(B2M)&SIINFEKL
Molecular Weight	The protein has a predicted MW of 50.20 kDa. Due to glycosylation, the protein migrates to 52-70 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

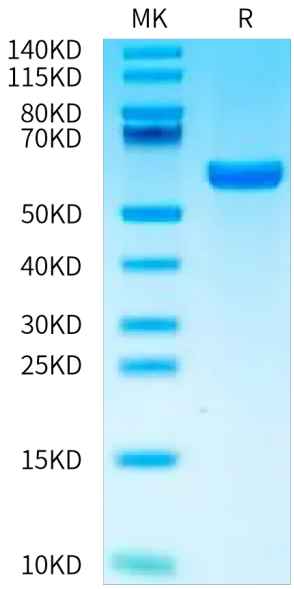
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

Ovalbumin (OVA) has been historically a popular source of such antigens, since OVA can induce both humoral and cellular immune responses based on well-characterised peptide epitopes. The OVA257-264 octapeptide was one of the frst OVA epitopes to be characterised, it has an amino acid sequence SIINFEKL, which is recognised by cytotoxic T lymphocytes. SIINFEKL forms fbrillar assemblies similar to other peptide hydrogels. Te immunoactive properties of this peptide can therefore be related to its self-assembling nature.

Assay Data

Bis-Tris PAGE



Biotinylated Mouse H-2K(b)&B2M&OVA (SIINFEKL) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Biotinylated Mouse H-2K(b)&B2M&OVA (SIINFEKL) Monomer Protein

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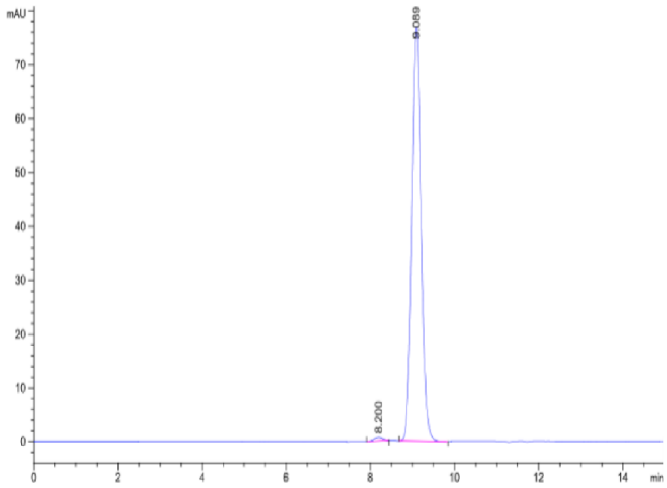
Assay Data



The purity of Biotinylated Mouse H-2K(b)&B2M&OVA (SIINFEKL) Monomer Protein is greater than 95% as determined by SEC-HPLC.