

Mouse Qa-1b&B2M&Qdm (AMAPRTLTL) Monomer Protein



Cat. No. MHC-MM452

Description	
Source	Recombinant Mouse Qa-1b&B2M&Qdm (AMAPRTLTL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus It contains His23-Pro296(Qa-1b), Ile21-Met119(B2M) and AMAPRTLTL peptide.
Accession	P06339(Q1-1b)&P01887(B2M)&AMAPRTLTL
Molecular Weight	The protein has a predicted MW of 50.60 kDa. Due to glycosylation, the protein migrates to 55-65 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	
Qa-1b binds a peptide (AMAPRTLTL), referred to as Qdm (for Qa-1 determinant modifier), derived from the signal sequence of murine class Ia molecules. This peptide binds with high affinity and accounts for almost all of the peptides associated with this molecule. Human histocompatibility leukocyte antigen (HLA)-E, a homologue of Qa-1b, binds similar peptides derived from human class Ia molecules and interacts with CD94/NKG2 receptors on natural killer cells.	

Assay Data

Bis-Tris PAGE



Mouse Qa-1b&B2M&Qdm (AMAPRTLTL) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

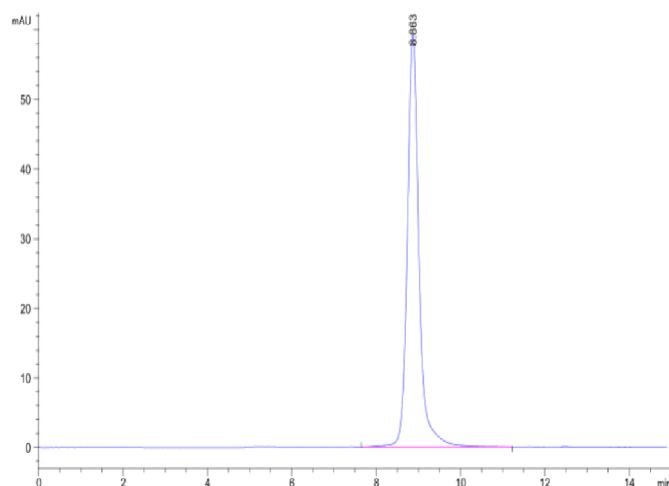
SEC-HPLC

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Assay Data



The purity of Mouse Qa-1b&B2M&Qdm (AMAPRTLTL) Monomer is greater than 95% as determined by SEC-HPLC.