

# Biotinylated Mouse Qa-1b&B2M&Qdm (AMAPRTLLL) Monomer Protein

Cat. No. MHC-MM452B

## Description

<b>Source</b>	Recombinant Biotinylated Mouse Qa-1b&B2M&Qdm (AMAPRTLLL) 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 AMAPRTLLL peptide.
<b>Accession</b>	P06339(Q1-1b)&P01887(B2M)&AMAPRTLLL
<b>Molecular Weight</b>	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.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

## Formulation and Storage

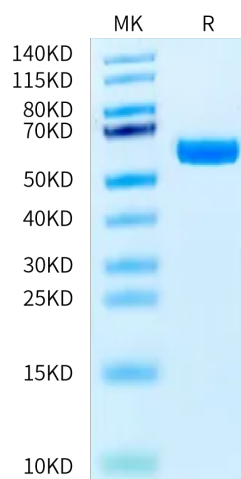
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 (AMAPRTLLL), 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

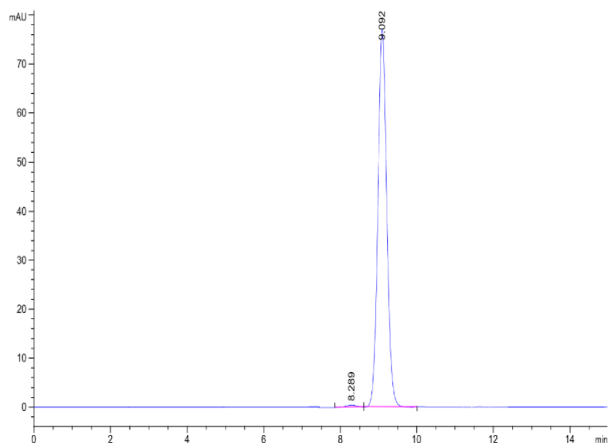
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



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