

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

Cat. No. MHC-MM452

Description

Source	Recombinant 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.
Accession	P06339(Q1-1b)&P01887(B2M)&AMAPRTLLL
Molecular Weight	The protein has a predicted MW of 50.60 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

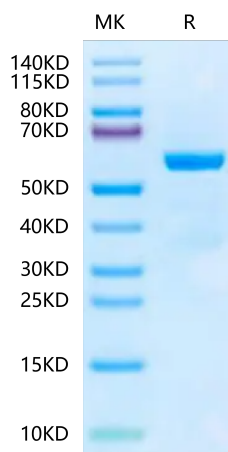
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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.

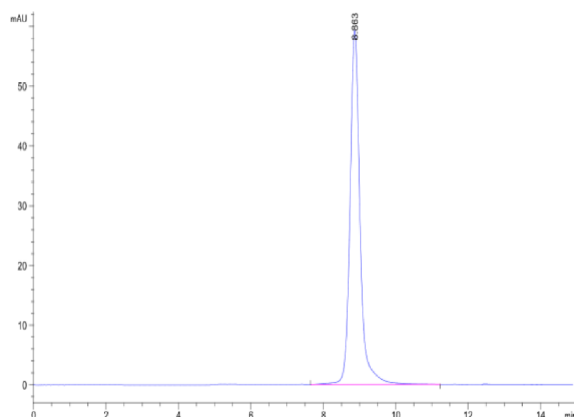
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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