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

Cat. No. MHC-MM452B

Description

Source	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.
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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC

Formulation and Storage

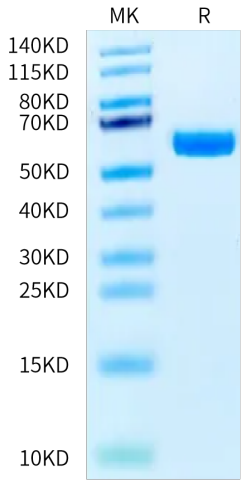
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

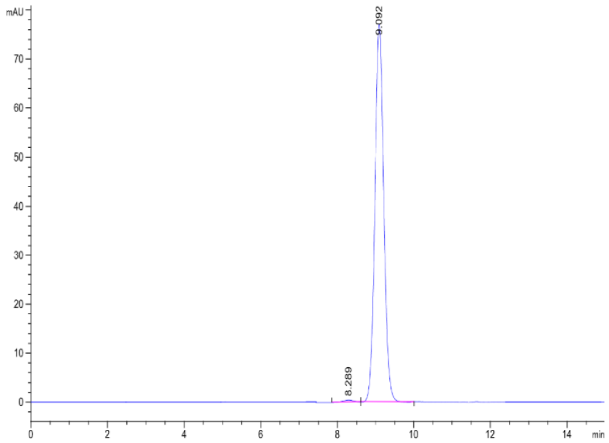
Assay Data

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



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