

Rev02
 Update: Aug,08,2025

DATASHEET

Qa-1b&B2M&Qdm (AMAPRTLLL) Monomer, His & Avi, Mouse

Cat. No.: Z06658

Product Introduction

Species	Mouse
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Qa-1b&B2M&Qdm (AMAPRTLLL) Monomer[His23-Pro296(Qa-1b), Ile21-Met119(B2M) and AMAPRTLLL peptide] Accession # P06339(Q1-1b)&P01887(B2M)&AMAPRTLLL </div> <div style="background-color: #90c090; padding: 5px; text-align: center;">His</div> <div style="background-color: #508050; padding: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by TrisBis PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	HEK293
Theoretical Molecular Weight	50.60 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target 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.

Synonyms : Qdm; Qa-1b; MHC; H2-T23

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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