

APC-Labeled Cynomolgus Mafa-A1*063:01&B2M&RM9 (RPKVPLRTM) Tetramer Protein

Catalog # MA9-CA2T3



BIOSYSTEMS
Acro

Synonyms

Mafa-A1*06301 & B2M & RM9 (RPKVPLRTM)

Source

APC-Labeled Cynomolgus Mafa-A1*063:01&B2M&RM9 (RPKVPLRTM) Tetramer Protein (MA9-CA2T3) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Pro 307 (Mafa-A1*063:01) & Ile 21 - Met 119 (B2M) & RPKVPLRTM peptide (Accession # [AAY57215.2](#) (Mafa-A1*063:01) & [Q8SPW0](#) (B2M) & RPKVPLRTM).

Predicted N-terminus: Gly 25 & Arg

Molecular Characterization

This protein carries a flag tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 35.8 kDa and 13.8 kDa.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 50-150 mM NaCl with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

Background

The Mafa-A1*06301/B2M/RM9 (RPKVPLRTM) complex is a well-characterized MHC class I tetramer used in non-human primate models. This complex consists of the cynomolgus macaque MHC allele Mafa-A1*06301, beta-2-microglobulin, and the immunodominant RM9 peptide derived from SIV Nef protein. It serves as a critical research tool for tracking SIV-specific CD8+ T-cell responses in AIDS vaccine studies, enabling ex vivo detection and functional assessment of antigen-specific T cells in macaques.

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