

Mouse MAdCAM-1 Protein, His Tag, low endotoxin (MALS & SPR verified)

Catalog # MAM-M52H3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

MAdCAM-1, MAdCAM1, Mucosal vascular addressin cell adhesion molecule 1 transcript variant 1

Source

Mouse MAdCAM-1 Protein, His Tag (MAM-M52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Ser 364 (Accession # [Q61826-1](#)).

Predicted N-terminus: Gln 22

Molecular Characterization

MAdCAM-1(Gln 22 - Ser 364)
Q61826-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 38.7 kDa. The protein migrates as 52-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

Storage

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

Please avoid repeated freeze-thaw cycles.

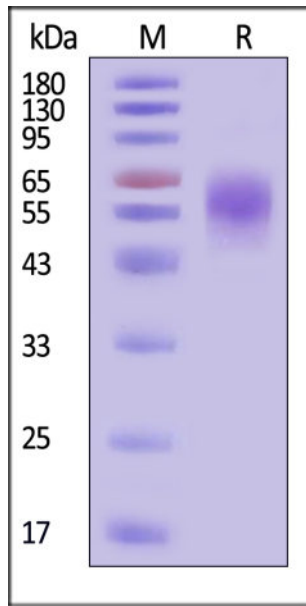
This product is stable after storage at:

- -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

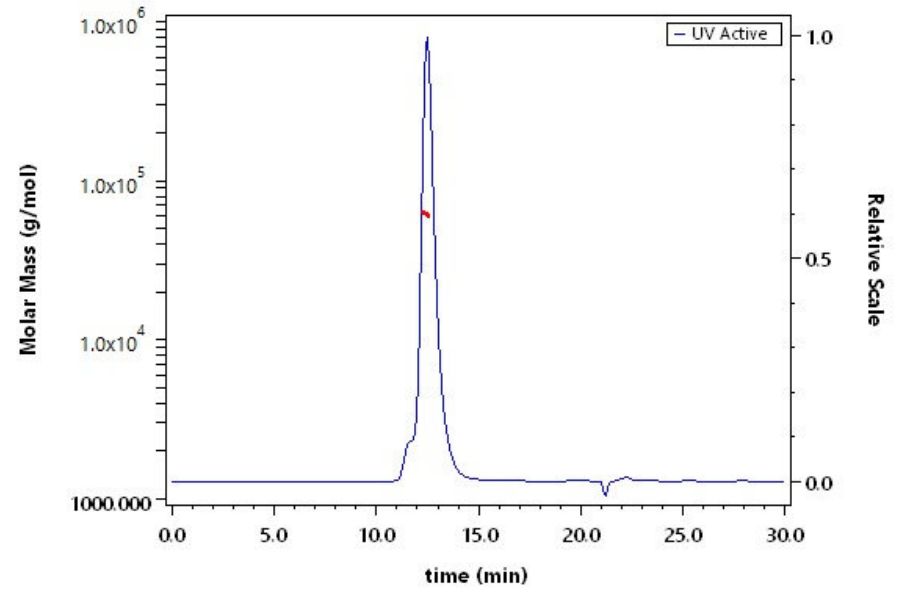
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



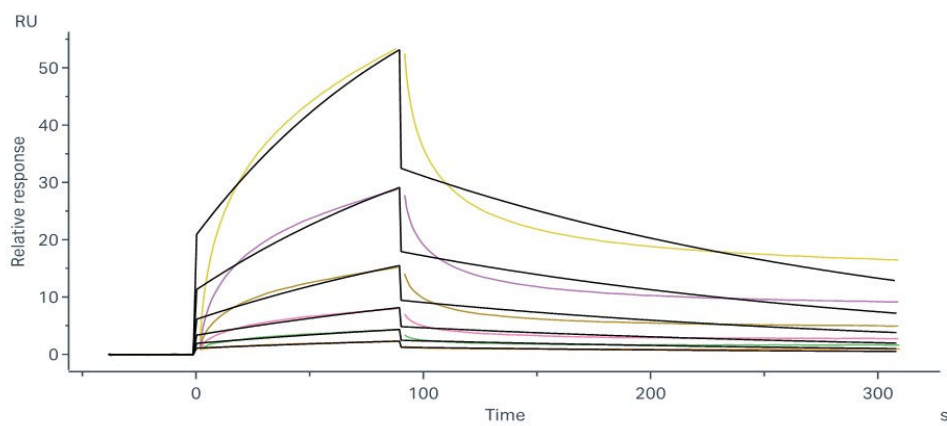
Mouse MAdCAM-1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Mouse MAdCAM-1 Protein, His Tag (Cat. No. MAM-M52H3) is more than 90% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.

Bioactivity-SPR



Mouse MAdCAM-1 Protein, His Tag (Cat. No. MAM-M52H3) immobilized on CM5 Chip can bind Recombinant Mouse Integrin alpha 4 beta 7 Protein with an affinity constant of 154 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

The mucosal addressin cell adhesion molecule-1 (MAdCAM-1) takes a key role in the endothelial adhesion and migration of lymphocytes to sites of inflammation in inflammatory disease. In vitro and in vivo data indicate that blockade of the adhesion molecule mucosal addressin cell adhesion molecule (MAdCAM) pathway decreases leukocyte homing to the gut by inhibiting the interaction between MAdCAM and its ligand the $\alpha 4\beta 7$ integrin expressed on lymphocytes.

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