

# Biotinylated Mouse MAdCAM-1 Protein, His,Avitag™ (MALS verified)

Catalog # MAM-M82E3



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

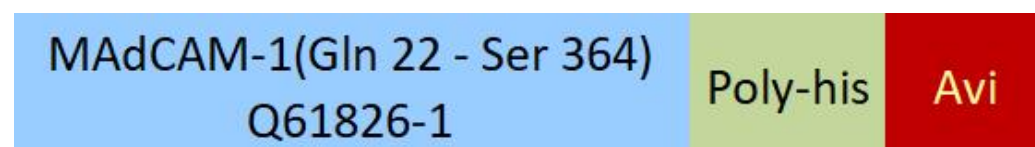
MAdCAM-1, MAdCAM1, Mucosal vascular addressin cell adhesion molecule 1 transcript variant 1

## Source

Biotinylated Mouse MAdCAM-1 Protein, His,Avitag (MAM-M82E3) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Ser 364 (Accession # [Q61826-1](#)).

Predicted N-terminus: Gln 22

## Molecular Characterization



### [Other Tags and Version Biotin & Other Labeled Version](#)

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

The protein has a calculated MW of 40.4 kDa. The protein migrates as 55-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## 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:

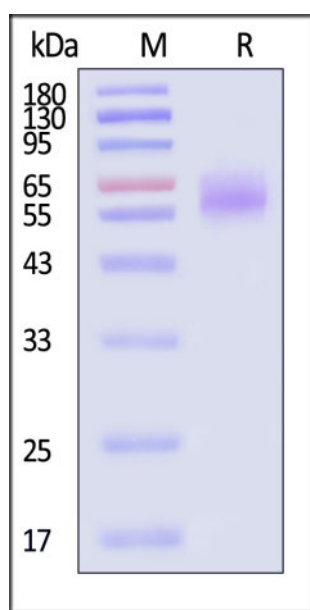
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

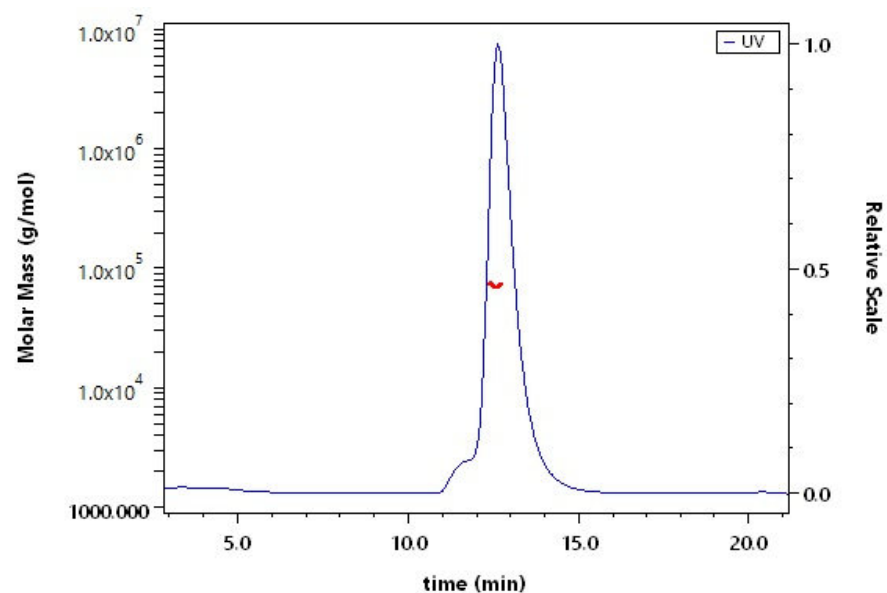
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE

## SEC-MALS

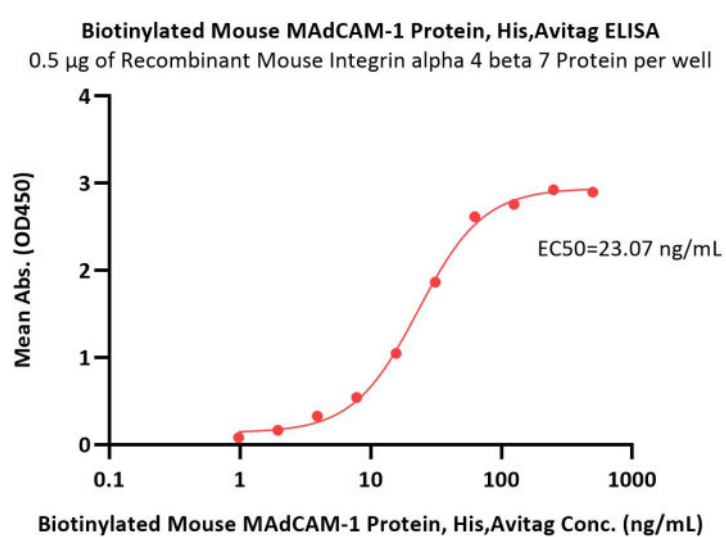


Biotinylated Mouse MAdCAM-1 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Biotinylated Mouse MAdCAM-1 Protein, His,Avitag (Cat. No. MAM-M82E3) is more than 90% and the molecular weight of this protein is around 55-80 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Recombinant Mouse Integrin alpha 4 beta 7 Protein at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Biotinylated Mouse MAdCAM-1 Protein, His,Avitag (Cat. No. MAM-M82E3) with a linear range of 1-63 ng/mL (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 address in 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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