

Synonym

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

Source

Human MAdCAM-1, His Tag(MAM-H52H4) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Gln 317 (Accession # [Q13477-1](#)). Predicted N-terminus: Gln 19

Molecular Characterization

MAdCAM-1(Gln 19 - Gln 317)
Q13477-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 33.3 kDa. The protein migrates as 46-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>95% 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

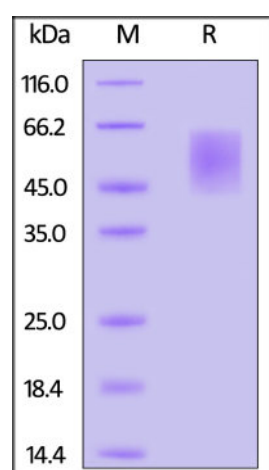
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

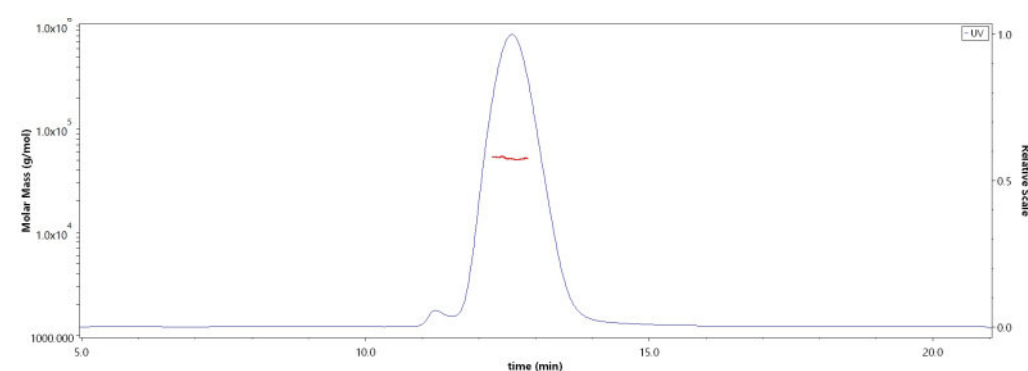
SDS-PAGE



Human MAdCAM-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

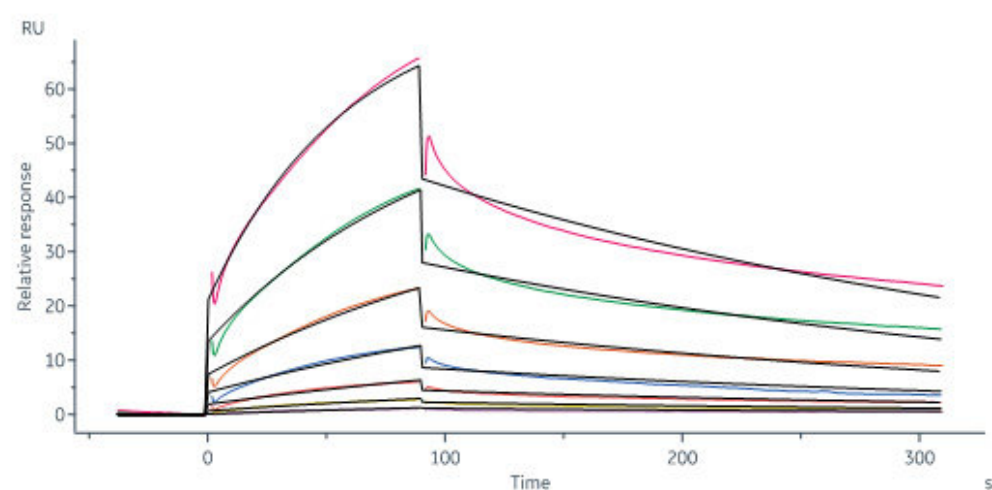
Bioactivity-SPR

SEC-MALS



The purity of Human MAdCAM-1, His Tag (Cat. No. MAM-H52H4) is more than 95% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.

[Report](#)



Human MAdCAM-1, His Tag (Cat. No. MAM-H52H4) immobilized on CM5 Chip can bind Human ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT7-H52W4) with an affinity constant of 0.227 μ M 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 address in cell adhesion molecule (MAdCAM) pathway decreases leukocyte homing to the gut by inhibiting the interaction between MAdCAM and its ligand the α 4 β 7 integrin expressed on lymphocytes.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.