

# Biotinylated Human MADCAM1 Protein

Cat. No. MCM-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human MADCAM1 Protein is expressed from HEK293 with His tag and Avi Tag at the C-Terminus. It contains Gln19-Gln317.
<b>Accession</b>	Q13477-1
<b>Molecular Weight</b>	The protein has a predicted MW of 34.31 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

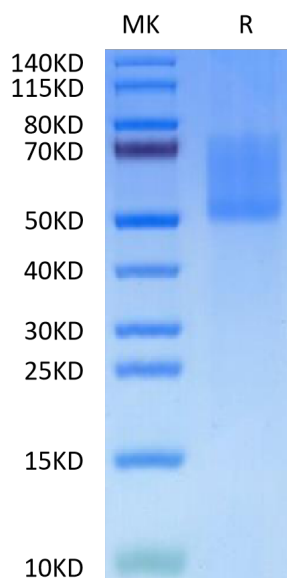
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Mucosal addressin cell adhesion molecule-1 (MAdCAM-1) contributes to the recruitment of donor T cells into the mucosal tissues of the recipient after allogeneic hematopoietic stem cell transplantation (aHSCT). The aim of our study was to determine whether selected single nucleotide polymorphisms (SNPs) of the MADCAM1 gene are associated with development of serious complications after aHSCT.

## Assay Data

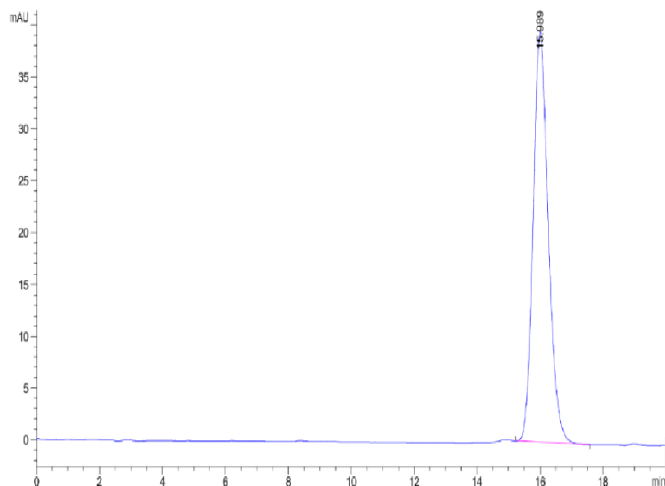
### Bis-Tris PAGE



Biotinylated Human MADCAM1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

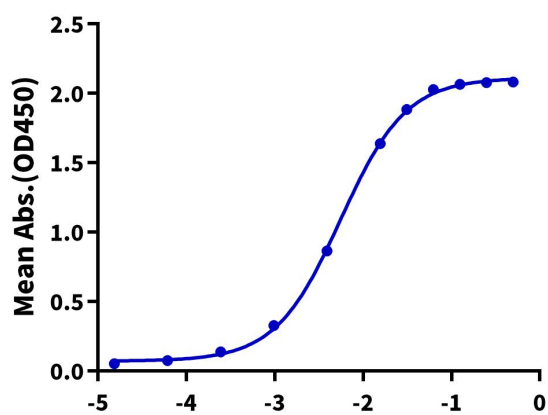


The purity of Biotinylated Human MADCAM1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human MADCAM1, His Tag ELISA**

0.05µg Biotinylated Human MADCAM1, His Tag Per Well



Immobilized Biotinylated Human MADCAM1, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-MADCAM1 Antibody, hFc Tag with the EC50 of 5.6ng/ml determined by ELISA (QC Test).