

Human MADCAM1 Protein

Cat. No. MCM-HM101



Description

Source	Recombinant Human MADCAM1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln19-Gln317.
Accession	Q13477-1
Molecular Weight	The protein has a predicted MW of 32.5 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

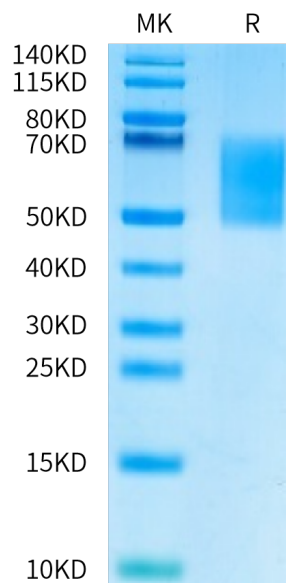
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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) is an endothelial cell marker that is recognized by its ligands on lymphocytes: L-selectin and $\alpha 4\beta 7$ integrin. MAdCAM-1 is highly expressed on intestinal endothelium and has, recently, been shown to play an important role in the development of acute GVHD in animal model.

Assay Data

Bis-Tris PAGE



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

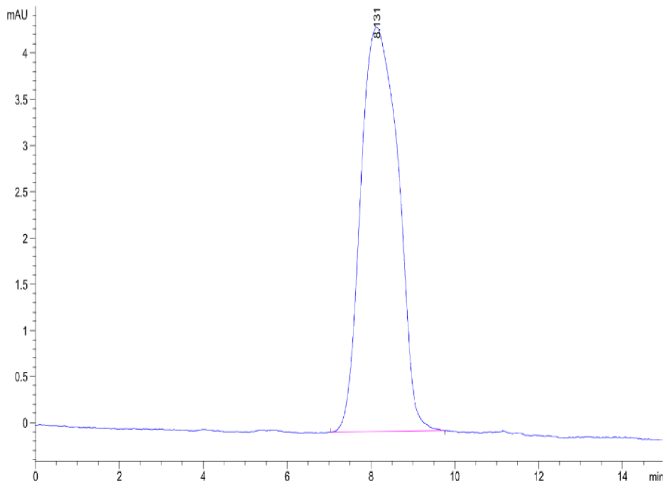
SEC-HPLC

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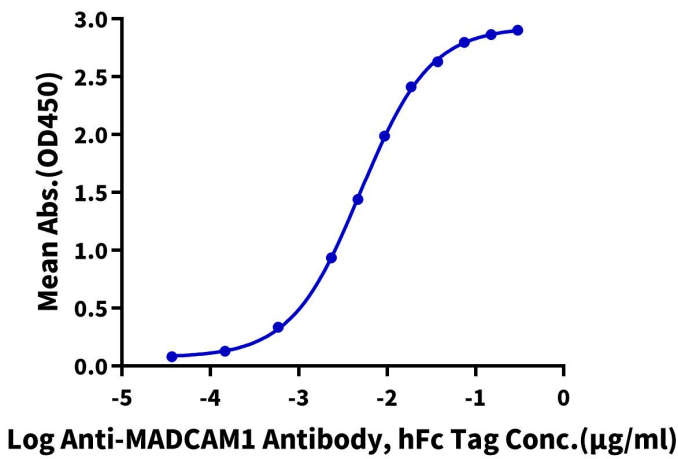
Assay Data



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

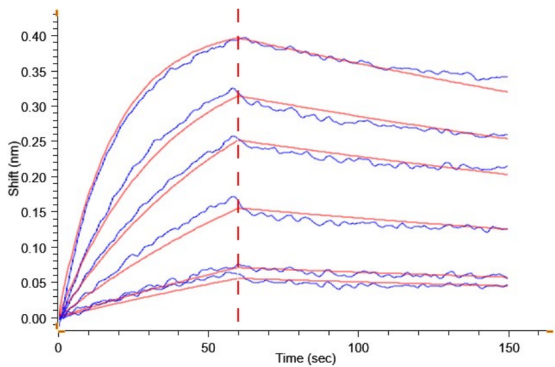
ELISA Data

Human MADCAM1, His Tag ELISA
0.05µg Human MADCAM1, His Tag Per Well



Immobilized Human MADCAM1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MADCAM1 Antibody, hFc Tag with the EC50 of 5.0ng/ml determined by ELISA (QC Test).

BLI Data



Loaded Anti-MADCAM1 Antibody, hFc Tag on ProA-Biosensor can bind Human MADCAM1, His Tag with an affinity constant of 9.41 nM as determined in BLI assay (Gator® Prime).