

Human MADCAM1 Protein

Cat. No. MCM-HM201



Description

Source	Recombinant Human MADCAM1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Gln19-Gln317.
Accession	Q13477-1
Molecular Weight	The protein has a predicted MW of 58.17 kDa. Due to glycosylation, the protein migrates to 75-95 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

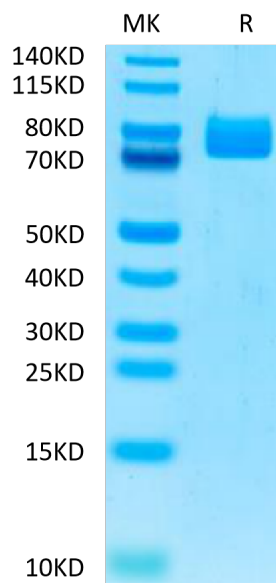
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

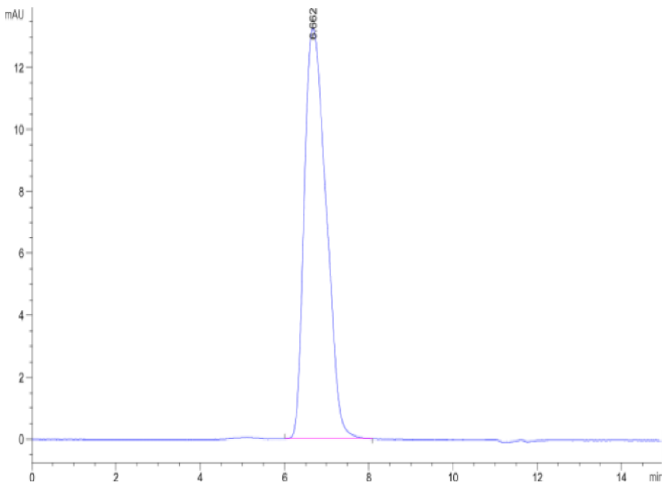
Bis-Tris PAGE



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

SEC-HPLC

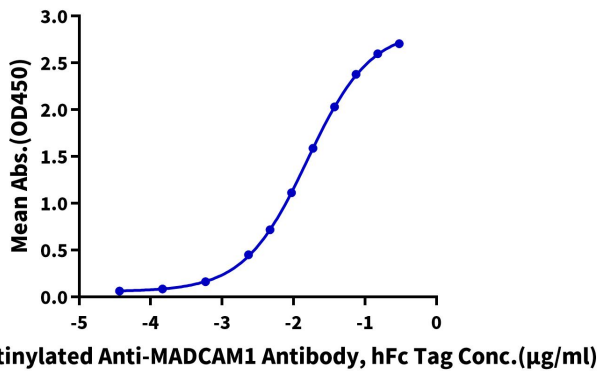
Assay Data



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

ELISA Data

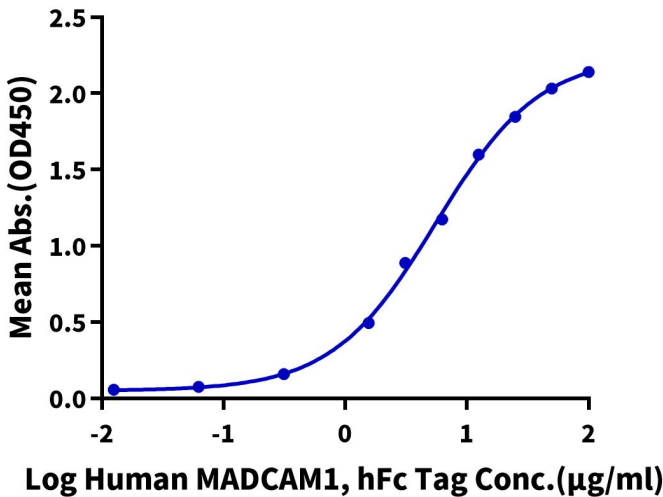
Human MADCAM1, hFc Tag ELISA
0.1µg Human MADCAM1, hFc Tag Per Well



Immobilized Human MADCAM1, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-MADCAM1 Antibody, hFc Tag with the EC50 of 15.5ng/ml determined by ELISA (QC Test).

ELISA Data

Human MADCAM1, hFc Tag ELISA
0.5µg Human ITGA4&ITGB7, His Tag Per Well



Immobilized Human ITGA4&ITGB7, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human MADCAM1, hFc Tag with the EC50 of 5.5µg/ml determined by ELISA.