

MAdCAM1 Protein, Human (Biotinylated, HEK293, Avi-His)

Cat. No.:	HY-P72397
Synonyms:	hMAdCAM-1; MACAM1; MAdCAM1; MAdCAM-1; mucosal addressin cell adhesion molecule 1
Species:	Human
Source:	HEK293
Accession:	Q4PKD0 (Q19-Q333)
Gene ID:	/
Molecular Weight:	55-80 kDa

PROPERTIES

AA Sequence	<pre> Q S L Q V K P L Q V E P P E P V V A V A L G A S R Q L T C R L A C A D R G A S V Q W R G L D T S L G A V Q S D T G R S V L T V R N A S L S A A G T R V C V G S C G G R T F Q H T V Q L L V Y A F P D Q L T V S P A A L V P G D P E V A C T A H K V T P V D P N A L S F S L L V G G Q E L E G A Q A L G P E V Q E E E E E P Q G D E D V L F R V T E R W R L P P L G T P V P P A L Y C Q A T M R L P G L E L S H R Q A I P V L H S P T S P E P P D T T S P E S P D T T S P E S P D T T S Q E P P D T T S Q E P P D T T S Q E P P D T T S P E P P D K T S P E P A P Q Q G S T H T P R S P G S T R T R R P E I S Q A G H T Q G K V I P T G S S K P A G D Q </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Mucosal Addressin Cell Adhesion Molecule 1 (MAdCAM1) is a cell adhesion leukocyte receptor expressed on the endothelial cells of mucosal venules, playing a crucial role in directing lymphocyte traffic into mucosal tissues, particularly the Peyer patches and the intestinal lamina propria. MAdCAM1 serves as a binding partner for both integrin alpha-4/beta-7 and L-selectin, thereby regulating the passage and retention of leukocytes in mucosal tissues. The homodimeric structure of
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MAdCAM1 contributes to its functional role in mediating adhesion between endothelial cells and circulating immune cells. Notably, isoform 2, which lacks the mucin-like domain, may have a specialized function in supporting integrin alpha-4/beta-7-dependent adhesion strengthening, independent of L-selectin binding. Understanding the features and interactions of MAdCAM1 provides insights into the intricate mechanisms governing lymphocyte trafficking in mucosal tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

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