

MAdCAM1 Protein, Human (P.pastoris, His-Myc)

Cat. No.:	HY-P71818
Synonyms:	Addressin mucosal; hMAdCAM 1 ; hMAdCAM-1; MACAM1
Species:	Human
Source:	P. pastoris
Accession:	Q13477 (19Q-317Q)
Gene ID:	8174
Molecular Weight:	Approximately 34.4 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 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 P T Q G E V I P T G S S K P A G D Q </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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.
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 MAdCAM1 contributes to its functional role in mediating adhesion between endothelial cells and circulating immune cells.
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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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