

MAdCAM1 Protein, Human (HEK293, His)

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| Cat. No.: | HY-P70852 |
| 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: | 55-65 kDa |

PROPERTIES

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| AA Sequence | <p> 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 </p> |
| Biological Activity | Measured by the ability of the immobilized protein to support the adhesion of Jurkat human T-lymphocyte leukemia cells in the presence of 1 mM MnCl ₂ . The ED ₅₀ for this effect is 1.987 µg/mL, corresponding to a specific activity is 503.2 units/mg. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4. |
| 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

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| Background | Mucosal Addressin Cell Adhesion Molecule 1 (MAdCAM1) is a cell adhesion leukocyte receptor expressed on the endothelial |
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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. 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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