

MAdCAM-1 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | MAdCAM1;hMAdCAM-1;MACAM1;mucosal addressin cell adhesion molecule 1;MAdCAM-1 |
| Protein Construction: | Gln19-Gln333 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q4PKD0 |
| Molecular Weight: | 55-65 KDa (reducing condition) |
| AA Sequence: | Gln19-Gln333 |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | Greater than 95% as determined by reducing SDS-PAGE. (QC verified) |
| Endotoxin: | < 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Mucosal addressin cell adhesion molecule-1 (MAdCAM-1) is an approximately 60 kDa type 1 transmembrane glycoprotein. It is an endothelial cell adhesion molecule that belongs to the immunoglobulin (Ig) superfamily of proteins. The Ig domains of MAdCAM-1 are critical to alpha (4) beta (7) binding, and the mucin domain has activity in L Selectin binding. MAdCAM-1 expression is up-regulated by TNF-alpha and IL 1 beta. Mucosal addressin cell adhesion molecule (MAdCAM-1) plays a pivotal role in T-lymphocyte homing to the gut. MAdCAM 1

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expression is also dramatically increased in chronic inflammatory and disease states, including inflammatory bowel disease (Crohn's disease and ulcerative colitis), sclerosing cholangitis, and diabetes, and may play an important role in these conditions.

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