

## MAdCAM-1 Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	MACAM1;MAdCAM-1;MADCAM1
Protein Construction:	Gln22-Gln295
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	XP_045235080.2
Molecular Weight:	30.65 kDa (Predicted); 55-65 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Cynomolgus MADCAM1, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-MADCAM1 Antibody, hFc Tag with the EC50 of 3.8 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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 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.

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