For Research Use Only

Recombinant Mouse MAdCAM-1 protein (rFc Tag)

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Catalog Number: Eg2010

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE

Tag: rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse MAdCAM-1 protein Gln22-Ser364 (Accession# NP_038619) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
17123

Accession:
NP_038619

Predicted Molecular Mass:
63.1 kDa

SDS-PAGE:
68-90kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Lymphocyte recirculation through different organs is thought to be regulated by adhesion molecules ("homing receptors") recognizing tissue-specific vascular addressins on endothelium. The mucosal vascular addressin, MAdCAM1, is an immunoglobulin superfamily adhesion receptor for lymphocytes that is expressed by mucosal venules and helps direct lymphocyte traffic into mucosal tissues including the Peyer patches and the intestinal lamina propria. MAdCAM1 can bind both integrin alpha-4/beta-7 and L-selectin, regulating both the passage and retention of leukocytes.

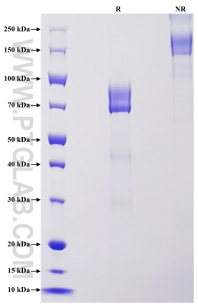
References

1. Hamann, A et al. Journal of immunology (Baltimore, Md. : 1950) vol. 152,7 (1994): 3282-93.
2. Berlin, C et al. Cell vol. 74,1 (1993): 185-95.
3. Fu, Shan et al. Cellular and molecular gastroenterology and hepatology vol. 17,2 (2024): 199-217.

Synonyms

Madcam1, Adhesion molecule immunoglobulin-like domain-containing protein

Selected Validation Data



Purity of Recombinant Mouse MAdCAM-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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