

Recombinant Mouse Intercellular Adhesion Molecule 1 (Icam1)

Cat. No.: AP4C239

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse Intercellular Adhesion Molecule 1 (Icam1) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 29.5 kDa. The purity is > 95%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 95%
Endotoxin	< 1.0 EU/µg
Predicted Molecular Weight	29.5 kDa
Physical State	Lyophilized
Formulation	20 mM Tris, 150 mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01%skl, 5% T rehalose and Proclin300.

Target Information

Mouse Intercellular Adhesion Molecule 1 (ICAM1) is a transmembrane glycoprotein that plays a central role in leukocyte trafficking, immune responses, and tissue repair. It is expressed at low levels in immune, endothelial, and epithelial cells but is upregulated during inflammation in response to cytokines such as TNF-α and IL-1. ICAM1 mediates leukocyte adhesion and transendothelial migration during inflammation, facilitating immune cell infiltration into tissues. It also regulates endothelial and epithelial barrier function by interacting with the cytoskeleton and signaling pathways, such as Rho-GTPases and MAP kinases, to modulate permeability. In addition to its role in inflammation, ICAM1 is involved in tissue repair and wound healing by promoting epithelial cell proliferation and neovascularization. It has also been implicated in tumor progression, where it facilitates the survival and dissemination of circulating tumor cells. ICAM1 serves as a therapeutic target in diseases such as rheumatoid arthritis and inflammatory bowel disease, where its inhibition may reduce inflammation and tissue damage.

Protein	Mouse Intercellular Adhesion Molecule 1 (Icam1)
Protein Synonym	ICAM-1; MALA-2; MyD10; CD54

Gene ID [15894](#)

EC No. [P13597](#)

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 20 mM Tris, 150 mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.