

Catalog Number: Eg0639

Basic Information**ED50:**
/**GeneID:**
22329**Species:**
Mouse**Accession:**
P29533**Purity:**
>90 %, SDS-PAGE**Technical Specifications****Purity:**

>90 %, SDS-PAGE

Endotoxin Level:<1.0 EU/ μ g protein, LAL method**Source:**

HEK293-derived Mouse VCAM-1 protein Phe25-Glu698 (Accession# P29533) with a His Tag at the C-terminus.

Predicted Molecular Mass:

75.2 kDa

SDS-PAGE:

80-100 kDa, reducing (R) conditions

Formulation:

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

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Storage and Shipping**Storage:**

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

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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

Vascular cell adhesion molecule 1 (VCAM1) is a transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. VCAM1 is expressed by cytokine-activated endothelium, interacts with integrin VLA4 ($\alpha 4 \beta 1$) present on the surface of leukocytes, and mediates both adhesion and signal transduction. It is also expressed either constitutively or inducibly in a variety of other cell types, including vascular smooth muscle cells, differentiating skeletal muscle cells, renal and neural epithelial cells, macrophages (Kupffer cells), dendritic cells, and bone marrow stromal cells. Soluble VCAM-1 (sVCAM-1) has been found in addition to membrane-bound VCAM-1.

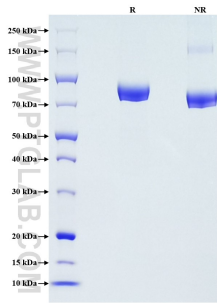
References

1. Elices MJ. et al. (1990) Cell. 60(4):577-84.
2. Pigott R. et al. (1992) Biochem Biophys Res Commun. 187(2):584-9.
3. Cybulsky MI. et al. (1993) Genomics. 18(2):387-91.
4. Tu Z. et al. (2001) J Immunol. 166(11):6839-46.

Synonyms

CD106, Vcam 1, Vcam1, VCAM-1

Selected Validation Data



Purity of Recombinant Mouse VCAM-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.

For technical support and original validation data for this product please contact

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