

Recombinant Rhesus Monkey VCAM-1/CD106 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg4594

Basic Information

Species:

Rhesus Monkey

Purity:

>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:

rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Rhesus Monkey VCAM-1 protein Phe25-Glu698 (Accession# F6W7X9) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

712036

Accession:

F6W7X9

Predicted Molecular Mass:

100.5 kDa

SDS-PAGE:

100-120 kDa, 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°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 (VCAM-1), also known as CD106, is a transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. VCAM-1 is expressed by cytokine-activated endothelium, interacts with integrin VLA4 (α4β1) 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. Increased sVCAM-1 has been shown to correlate with disease activity in various entities including rheumatoid arthritis, systemic lupus erythematosus, and lupus nephritis.

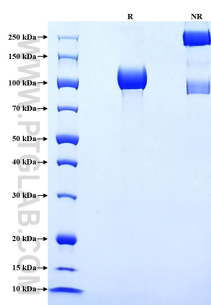
References

1. Elices MJ. et al. (1990). Cell. 60(4):577-584.
2. Pigott R. et al. (1992). Biochem Biophys Res Commun. 187(2):584-589.
3. Cybulsky MI. et al. (1993). Genomics. 18(2):387-391.
4. Tu Z. et al. (2001). J Immunol. 166(11):6839-6846.

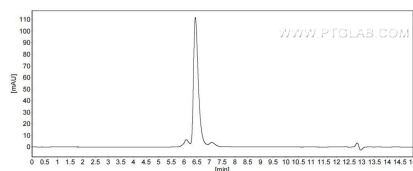
Synonyms

CD106, vascular cell adhesion molecule 1, VCAM-1

Selected Validation Data



Purity of Recombinant Rhesus Monkey 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.



The purity of Rhesus Monkey VCAM-1 was greater than 90% as determined by SEC-HPLC.