Recombinant Mouse VCAM1 Protein (His Tag)

Catalog Number:PKSM040831



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms CD106;Vascular cell adhesion protein 1;Vcam1;L1CAM;VCMA1;Vcam-1

Species Mouse

Expression Host

Sequence

Met 1-Glu 698

Accession

NP_035823.3

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Glu 698

NP_035823.3

75.8 kDa

90-100 kDa

C-His

Bioactivity Measured by the ability of the immobilized protein to support adhesion of U937

human histiocytic lymphoma cells. When 5 x 10^4 cells/well are added to mouse VCAM1 coated plates (10 μ g/ml with 100 μ l/well), approximately 70%-80% cells

will adhere after 1 hour at RT.

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

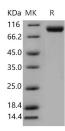
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Vascular cell adhesion molecule 1 (VCAM-1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two forms of VCAM-1 with either six or seven extracellular Ig-like domains are generated by alternative splicing, with the longer form predominant. VCAM-1 is an endothelial ligand for very late antigen-4 (VLA-4) and α 4 β 7 integrin expressed on leukocytes, and thus mediates leukocyte-endothelial cell adhesion and signal

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transduction. VCAM-1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection, infection, and asthmatic responses. During these responses, VCAM-1 forms a scaffold for leukocyte migration. VCAM-1 also activates signals within endothelial cells resulting in the opening of an "endothelial cell gate" through which leukocytes migrate. VCAM-1 has been identified as a potential anti-inflammatory therapeutic target, the hypothesis being that reduced expression of VCAM-1 will slow the development of atherosclerosis. In addition, VCAM-1-activated signals in endothelial cells are regulated by cytokines indicating that it is important to consider both endothelial cell adhesion molecule expression and function during inflammatory processes.

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