Active Recombinant Mouse Vcam1, His-tagged

Cat. No. Vcam1-4013M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain (Met 1 - Glu 698) of mouse VCAM1 (NP_035823.3) was fused with the a polyhistidine tag at the C-terminus.
Species	Mouse
Source	Mouse
ProteinLength	1-698 a.a.
Description	Mouse vascular cell adhesion molecule 1 (VCAM1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two isoforms of mouse VCAM1 have been identified, referred to as single-pass type I transmembrane (short) isoform 1 containing seven C2-type I g-like domains and GPI-anchored isoform 2. Mouse VCAM1 is expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Purity	> 97 % as determined by SDS-PAGE
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5 x 104 cells / well are added to mouse

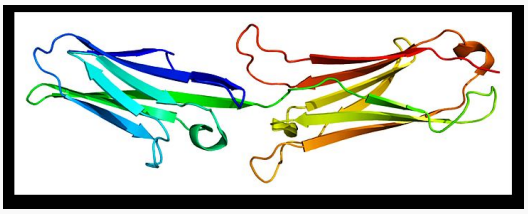
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	VCAM1 coated plates (10 μg/mL with 100 μL/well) , approximately 70% - 80% cells will adhere after 1 hour incubation at RT
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Stability	Samples are stable for up to twelve months from date of receipt at -70μ
Predicted N terminal	Phe 25
Molecular Mass	The secreted recombinant mouse VCAM1 consists of 685 amino acids and has a predicted molecular mass of 75.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmVCAM1 is approximately 90-100 kDa due to glycosylation.
Storage	Store it under sterile conditions at -70μ. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Vcam1 vascular cell adhesion molecule 1 [Mus musculus]
Official Symbol	Vcam1
Synonyms	Vcam1; vascular cell adhesion molecule 1; CD106; Vcam-1
Gene ID	22329
mRNA Refseq	NM_011693
Protein Refseq	NP_035823

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UniProt ID	P29533
Chromosome Location	3 G1; 3 50.8 cM
Pathway	Cell adhesion molecules (CAMs); Leukocyte transendothelial migration
Function	protein binding
PDB rendering basedon 1ij9.	

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