Mouse VCAM-1/CD106 Protein

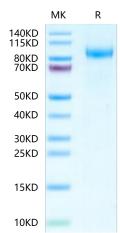
Cat. No. VAM-MM106

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Description	
Source	Recombinant Mouse VCAM-1/CD106 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Phe25-Glu698.
Accession	NP_035823.3
Molecular Weight	The protein has a predicted MW of 75.48 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Tumor necrosis factor alpha (TNF α) is a pro-inflammatory cytokine that triggers the expression of inflammatory molecules, including other cytokines and cell adhesion molecules. TNF α induces the expression of intercellular cell adhesion molecule-1 and vascular cell adhesion molecule-1 (VCAM-1). VCAM-1 was originally identified as a cell adhesion molecule that helps regulate inflammation-associated vascular adhesion and the transendothelial migration of leukocytes, such as macrophages and T cells.

Assay Data

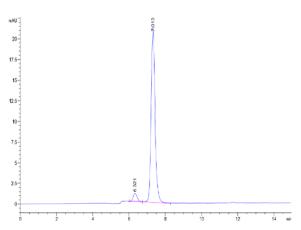




condition. The purity is greater than 95%.

Mouse VCAM-1 on Tris-Bis PAGE under reduced

SEC-HPLC



The purity of Mouse VCAM-1 is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by the ability of the immobilized protein to support adhesion of U937 human histiocytic lymphoma cells. When 5 x 10⁴ cells/well are added to Mouse VCAM-1 coated plates (10 µg/ml with 100 µl/well), approximately 70 % - 80 % cells will adhere after 1 hour incubation at room temperature.

