

Mouse VCAM-1/CD106 Protein, Ultra Low Endotoxin



Cat. No. VAM-MM106-UL

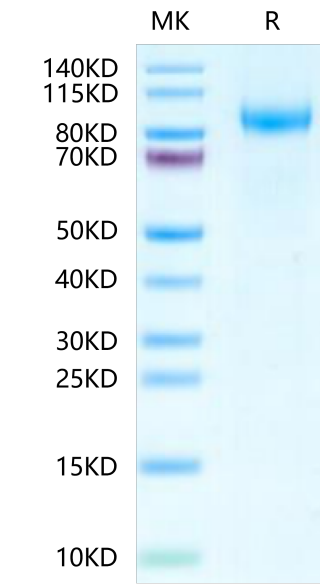
Description	
Source	Recombinant Mouse VCAM-1/CD106 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe25-Glu698.
Accession	NP_035823.3
Molecular Weight	The protein has a predicted MW of 75.48 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Tumor necrosis factor alpha (TNFα) is a pro-inflammatory cytokine that triggers the expression of inflammatory molecules, including other cytokines and cell adhesion molecules. TNFα 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

Bis-Tris PAGE



Mouse VCAM-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

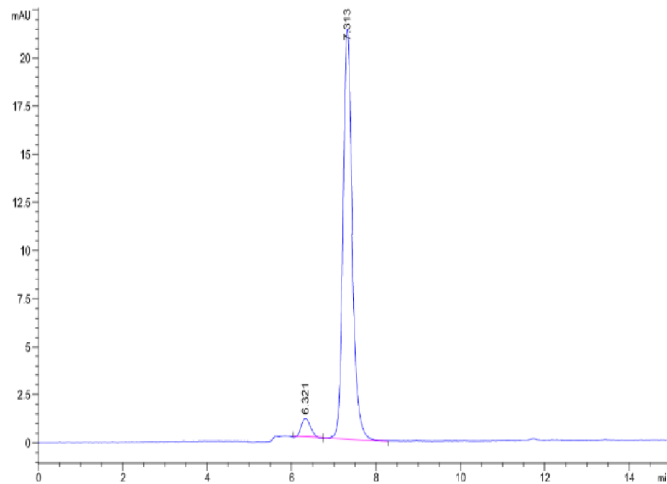
SEC-HPLC

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### Assay Data



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

### Bioactivity Data

Measured by the ability of the immobilized protein to support adhesion of U937 human histiocytic lymphoma cells. When  $5 \times 10^4$  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.