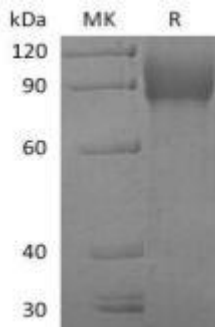


## Recombinant Human VCAM-1(C-6His)

Catalog#:P00508 Derived from Human Cells

<b>DESCRIPTION</b>	<p>Recombinant Human Vascular Cell Adhesion Protein 1 is produced by our Mammalian expression system and the target gene encoding Phe25-Glu698 is expressed with a 6His tag at the C-terminus.</p> <p><b>Accession#:</b> P19320</p> <p><b>Known as:</b> Vascular Cell Adhesion Protein 1; V-CAM 1; VCAM-1; INCAM-100; CD106; VCAM1; L1CAM</p>
<b>FORMULATION</b>	<p>Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 2mM CaCl<sub>2</sub>, 2mM MgCl<sub>2</sub>, 5% Threhalose, pH 7.2.</p>
<b>SHIPPING</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Lyophilized protein should be stored at &lt;-20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>
<b>RECONSTITUTION</b>	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>QUALITY CONTROL</b>	<p><b>Mol Mass:</b>75.26kDa <b>AP Mol Mass:</b>85-120kDa, reducing conditions.</p> <p><b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE.</p> <p><b>Endotoxin:</b> Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
<b>BACKGROUND</b>	<p>VCAM-1 is a single-pass type I membrane protein, contains 7 Ig-like C2-type domains. It is an endothelial ligand for very late antigen-4 (VLA-4) and α<sub>4</sub>β<sub>7</sub> integrin expressed on leukocytes, and thus mediates leukocyte-endothelial cell adhesion and signal 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.</p>
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"><b>SDS-PAGE</b></div>  </div>	