

## VCAM-1 Protein, Rat, Recombinant (His)

### General Information

Synonyms: VCAM-1;Vascular cell adhesion protein 1;Vcam1;V-CAM 1;CD106

Protein Construction: 31-697 aa

Species: Rat

Expression Host: E. coli

Accession: P29534

Molecular Weight: 77.4 kDa (predicted)

AA Sequence: PEYKTLAQIGDSMLLTCTTGCESPSFSWRTQIDSPLNGKVKTEGAKSVLTM DPV SFENEHSYLCTATCNSGKL  
ERGIQVDIYSFPKDP EIQFSGPLEVGKPV MVKCLAPDVYPIDRLEIELFKGDR LMKKQDFVDEMAKKSLETKSLE  
VIFTPVIEDIEKALVCRAKLYIDQ TDSIPKERETVRELQVY TSPKNTEISVHPSTR LHEGAAVTMTCASEGLPAPEI  
FWSKKLDNGVLQLLSGNATL LIAMRMEDSGIYVCEGVNLVGRDKTEVELIVQEKPFTVDISPGSQVAAQVGD  
SVVLTCAA VGCDSPSFSWRTQ TDSPLNGEVRDEGATSTLTLSPV GVEDEHSYLCTVTCQRRKLEKTIQVEVYSF  
PEDPEIEISGPLVHGRPVTVNCTV PNVYPFDHLEIELLKGETLLNKFLREEIGTKSLETKSLEMTFIPTAEDTGKA  
LVCLAKLHSSQMESEPKQRQSTQ TLYVNVAPKEPTI WVSPSPVPEEGSPVNLTCSSDGFPTPKILWSRQLKNG  
ELQPLSQNTTLSFMATKMEDSGIYVCEGINEAGISKKSVELIIQGSSKDIQLTVFPSKSVKEGDTVIIISCTCGSVPE  
IWIIKKKAKTGDMVLKSVNGSYTIRKAQLQDAGVYECESKTEVGSQ LRS LTL DVKGKENNKDYFSP

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

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

Formulation: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with integrin alpha-4/beta-1 (ITGA4/ITGB1) on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/ITGA4/ITGB1 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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