

Human CD106 / VCAM1 - Purified

Alternate names: INCAM-100, L1CAM, V-CAM 1, VCAM-1, Vascular cell adhesion protein 1

Catalog No.: AR09339PU-N

Quantity: 50 µg

Background: VCAM is a 110 kDa cell surface integral membrane glycoprotein that belongs to the Ig-related superfamily of adhesion molecules. The primary function of VCAM-1 is the mediation of leukocyte-endothelial cell adhesion and signal transduction. VCAM-1 may play a vital role in the development several diseases, including atherosclerosis and rheumatoid arthritis. The human VCAM-1 gene codes for a 715 amino acid transmembrane glycoprotein containing a 19 amino acid cytoplasmic domain, a 22 amino acid transmembrane domain, and a 674 amino acid extracellular domain.

Uniprot ID: [P19320](#)

NCBI: [NP_001069](#)

GenID: [7412](#)

Species: Human

Source: HEK293 cells

Format: **State:** Lyophilized (0.2µ Sterile filtered) purified protein

Purity: >98% pure by SDS-PAGE gel and HPLC analyses

Buffer System: 10mM Sodium Phosphate, pH 7.0

Endotoxin Level: < 0.1 ng per µg (1EU/µg).

Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml. Centrifuge the vial prior to opening. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Description: Recombinant Human VCAM-1 is a 74.0kDa glycoprotein comprising the extracellular domain (673 amino acid residues) of VCAM-1. Monomeric glycosylated VCAM-1 migrates at an apparent MW of ~ 90.0 kDa by SDS-PAGE analysis.

AA Sequence:

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FKIETTPESR YLAQIGDSVS LTCSTTGCS PFFSWRTQID SPLNGKVTNE GTTSTLTMPN VSGNEHSYL
CTATCESRKL EKGIQVEIYS FPKDPEIHL GPLEAGKPIT VKCSVADVYP FDRLEIDLLK GDHLMKSQEF
LEDADRKSLE TKSLEVTFTP VIEDIGKVLV CRAKLHIDEM DSVPTVRQAV KELQVYISPK NTVISVNPST
KLQEGGSVTM TCSSEGLPAP EIFWSKLDN GNLQHLGNA TLTLIAMRME DSGIYVCEGV NLIGKNRKEV
ELIVQEKPFT VEISPGPRIA AQIGDSVMLT CSVMGCESPS FSWRTQIDSP LSGKVRSEGT NSTLTLSPVS
FENEHSYLCT VTCGHKKLEK GIQVELYSFP RDPEIEMSGG LVNGSSVTVS CKVPSVYPLD RLEIELLKGE
TILENIEFLE DTDMSLENK SLEMTFIPIT EDTGKALVCQ AKLHIDMEF EPKQRQSTQT LYVNVAPRDT
TVLVSPSSIL EEGSSVNMTK LSQGFPAKI LWSRQLPNGE LQPLSENATL TLISTKMEDS GVYLCEGINQ
AGRSRKEVEL IIQVTPKDIK LTAFPSESVK EGDTVIISCT CGNVPETWII LKKAETGDT VLKSIDGAYT
IRKAQLKDAG VYECESKNKV GSQLRSLTLD VQGRENNKDY FSP
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Biological Activity: Determined by its ability to support the adhesion of human U937 cells.

The expected ED50 for this effect is 0.8-1.0 µg/ml.

Molecular weight: 74.0 kDa

Storage:

Prior to reconstitution store at 2-8°C.

Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.