





# Recombinant Human Vascular cell adhesion protein 1 (VCAM1), partial

<b>Product Code</b>	CSB-YP025809HU
Relevance	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 igration to sites of inflammation.
Abbreviation	Recombinant Human VCAM1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P19320
Alias	INCAM-100; CD106
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	FKIETTPESRYLAQIGDSVSLTCSTTGCESPFFSWRTQIDSPLNGKVTNEGTTS TLTMNPVSFGNEHSYLCTATCESRKLEKGIQVEIYSFPKDPEIHLSGPLEAGKPI TVKCSVADVYPFDRLEIDLLKGDHLMKSQEFLEDADRKSLETKSLEVTFTPVIE DIGKVLVCRAKLHIDEMDSVPTVRQAVKELQVYISPKNTVISVNPSTKLQEGGS VTMTCSSEGLPAPEIFWSKKLDNGNLQHLSGNATLTLIAMRMEDSGIYVCEGV NLIGKNRKEVELIVQEKPFTVEISPGPRIAAQIGDSVMLTCSVMGCESPSFSWR TQIDSPLSGKVRSEGTNSTLTLSPVSFENEHSYLCTVTCGHKKLEKGIQVELYS FPRDPEIEMSGGLVNGSSVTVSCKVPSVYPLDRLEIELLKGETILENIEFLEDTD MKSLENKSLEMTFIPTIEDTGKALVCQAKLHIDDMEFEPKQRQSTQTLYVNVAP RDTTVLVSPSSILEEGSSVNMTCLSQGFPAPKILWSRQLPNGELQPLSENATLT LISTKMEDSGVYLCEGINQAGRSRKEVELIIQVTPKDIKLTAFPSESVKEGDTVII SCTCGNVPETWIILKKKAETGDTVLKSIDGAYTIRKAQLKDAGVYECESKNKVG SQLRSLTLDVQGRENNKDYFSPE
Research Area	Cell Adhesion
Source	Yeast
Target Names	VCAM1
Protein Names	Recommended name: Vascular cell adhesion protein 1 Short name= V-CAM 1 Short name= VCAM-1 Alternative name(s): INCAM-100 CD_antigen= CD106
Expression Region	25-698aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



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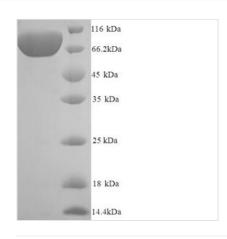




Tag Info	N-terminal 6xHis-tagged
Mol Weight	76 2kDa

#### Extracellular Domain **Protein Length**

# **Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

A truncated version of Vascular cell adhesion protein 1 (VCAM1) encoding the extracellular domain and carrying a 6xHis-tag at the N-terminus was produced in the yeast. The resulting protein is a partial-length VCAM1 protein. It contains aa of 25-698 of the human VCAM1 protein. It was purified by SDS-PAGE and reached up to 90% in purity. On the reducing SDS-PAEG gel, this VCAM1 protein migrated on the molecular weight band of about 66-116 kDa. In addition to producing specific antibodies, the recombinant VCAM1 protein could also be used in the studies of VACM-related immunology or signal transduction.

VCAM-1, or called CD106, is a glycoprotein primarily expressed in endothelial cells. Pro-inflammatory cytokines, ROS, high glucose concentration, oxidized low-density lipoprotein, shear stress, and toll-like receptor agonists, can induce the expression of VCAM-1. VCAM-1 participates in the modulation of inflammation-associated vascular adhesion and the transendothelial migration of leukocytes. Recent studies show the close link of VCAM-1 to the progression of various immunological disorders, such as asthma, rheumatoid arthritis, transplant rejection, and cancer.

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### **Shelf Life**

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