

Active Recombinant Human VCAM1 Protein

Cat. No. VCAM1-191H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VCAM1, transcript variant 1, was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of arteriosclerosis and rheumatoid arthritis. Three alternatively spliced transcripts encoding different isoforms have been described for this gene.
Form	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bio-activity	Determined by its ability to support the adhesion of human U937 cells. The expected ED50 for this effect is 0.8-1.0ug/mL.
Molecular Mass	74 kDa
AA Sequence	FKIETTPESRYLAQIGDSVSLTCSTTGCESPFFSWRTQIDSPLNGKVTNEGTTSTLTM NPVSFGNEHSYLCTATCESRKLEKGIQVEIYSFPKDPEIHLSGPLEAGKPITVKCSVA DVYPFDRLEIDLLKGDHLMKSQEFLEDADRKSLETKSLEVTFTPVIEDIGKVLVCRAKL HIDEMDSVPTVRQAVKELQVYISPKNTVISVNPSTKLQEGGSVTMTCSSEGLPAPEIF

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WSKKLDNGNLQHLSGNATLTLIAMRMEDSGIYVCEGVNLIGKNRKEVELIVQEKPF
 VEISPGPRIAAQIGDSVMLTCSVMGCESPSFSWRTQIDSPLSGKVRSEGTNSTLTLS
 PVSFENEHSYLCTVTCGHKKLEKGIQVELYSFPRDPEIEMSGGLVNGSSVTVSCKVP
 SVYPLDRLEIELLKGETILENIEFLEDTDMKSLENKSLEMTFIPTIEDTGKALVCQAKLHI
 DDMEFEPKQRQSTQTLVNVAPRDTTVLVSPSSILEEGSSVNMTCLSQGFAPAKILW
 SRQLPNGELQPLSENATLTLISTKMEDSGVYLCEGINQAGRSRKEVELIIQVTPKDIKL
 TAFPSESVKEGDTVIIISCTCGNVPETWILKKKAETGDTVLSIDGAYTIRKAQLKDAG
 VYECESKNKVGSQLRSLTLDVQGRENNKDYFSP

Endotoxin

Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity

>95% as determined by SDS-PAGE and Coomassie blue staining

Concentration

Resuspend the protein in the desired concentration in proper buffer

GENE INFORMATION

Gene Name

VCAM1 vascular cell adhesion molecule 1 [Homo sapiens]

Official Symbol

VCAM1

Synonyms

VCAM1; vascular cell adhesion molecule 1; vascular cell adhesion protein 1; CD106;
 CD106 antigen; INCAM-100; MGC99561; DKFZp779G2333;

Gene ID

7412

mRNA Refseq

NM_001078

Protein Refseq

NP_001069

MIM

192225

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UniProt ID

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