



Recombinant Rat Vascular cell adhesion protein 1 (Vcam1), partial

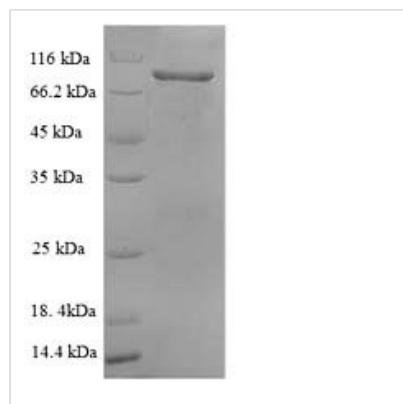
Product Code	CSB-EP025809RA1
Relevance	Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with integrin alpha-4/beta-1 (ITGA4/ITGB1) on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/ITGA4/ITGB1 interaction may play a pathophysiologic role both in immune responses and in leukocyte migration to sites of inflammation.
Abbreviation	Recombinant Rat 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.	P29534
Alias	CD106
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PEYKTLAQIGDSMLLTCTSTTGCESPFSWRTQIDSPLNGKVKTEGAHSVLTMD PVSFENEHSYLCATCNSGKLERGIQVDIYSFPKDPEIQFSGPLEVGKPVMMVKC LAPDVYPIDRLEIELFKGDRMLMKKQDFVDEMAKKSLETKSLEVIPTPIEDIEKAL VCRAKLYIDQTD SIPKERETVRELQVYTSPKNTEISVHPSTRLHEGAAVTMTCA SEGLPAPEIFWSKKLDNGVLQLLSGNATLTLIAMRMEDSGIYVCEGVNLVGRD KTEVELIVQEKPFVTDISPGSQVAAQVGDSVVLTC AAVGCDSPFSWRTQTDS PLNGEVRDEGATSTLTLS PVGVEDEHSYLCVTTCQRRKLEKTIQVEVYSFPED PEIEISGPLVHGRPVTVNCTV PNVYPFDHLEIELLKGETTLLNKLFLREEIGTKSLE TKSLEMTFIPTAEDTGKALVCLAKLHSSQMESEPKQRQSTQTLVNVAPKEPTI WVSPSPVPEEGSPVNLTCSSDGFPTPKILWSRQLKNGELQPLSQNTTLSFMA TKMEDSGIYVCEGINEAGISKKSVELIIQGSSKDIQLTVFPSKSVKEGDTVIIISCT CGSVPEIWIILKKKAKTGDMVLKSVNGSYTIRKAQLQDAGVYECESKTEVGSQL RSLTLDVKGKENNKDYFSP
Research Area	Others
Source	E.coli
Target Names	Vcam1
Expression Region	31-697aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged



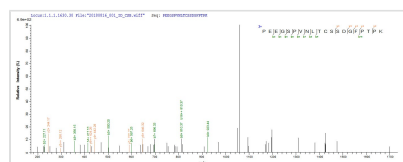
Mol. Weight	77.4kDa
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Protein Length	Partial
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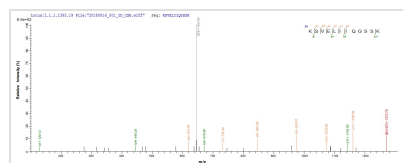
Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-RP167294r could indicate that this peptide derived from E.coli-expressed *Rattus norvegicus* (Rat) Vcam1.



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Description

Recombination of a plasmid encoding the Rat Vcam1 protein (31-697aa) is the first step during the production the recombinant Rat Vcam1 protein. The constructed plasmid is introduced into e.coli cells. e.coli cells that can survive in the presence of a specific antibiotic are selected to be cultured for the induction of protein expression. The protein is equipped with a N-terminal 6xHis tag. After expression, affinity purification is used to isolate and purify the recombinant Rat Vcam1 protein from the cell lysate. Denaturing SDS-PAGE is then applied to resolve the resulting recombinant Rat Vcam1 protein. Its purity exceeds 90%.

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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