

VCAM-1/CD106 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P72432
Synonyms:	Vascular cell adhesion protein 1; VCAM-1; CD106
Species:	Mouse
Source:	HEK293
Accession:	P29533 (F25-E698)
Gene ID:	22329
Molecular Weight:	100-130 kDa

PROPERTIES

AA Sequence

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FKIEISPEYK   TIAQIGDSMA   LTCSTTGCES   PLFSWRTQID
SPLNAKVRTE   GSKSVLTMEP   VSFENEHSYL   CTATCGSGKL
ERSIHVDIYS   FPKDPEIQFS   GPLEVGKPV   VKCLAPDIYP
VYRLEIDLFK   GDQLMNRQEF   SSEEMTKSLE   TKSLEVTFTP
VIEDIGKALV   CRAKLHIDQI   DSTLKERETV   KELQVYISPR
NTTISVHPST   RLQEGGAVTM   TCSSEGLPAP   EIFWGRKLDN
EVLQLLSGNA   TLTLIAMRME   DSGVYVCEGV   NLIGRDKAEV
ELVVQEKPFI   VDISPGSQVA   AQVGDSVVLT   CAAIGCDSPS
FSWRTQTDSP   LNGVVRNEGA   KSTLVLSVSG   FEDEHSYLCA
VTCLQRTLEK   RTQVEVYSFP   EDPVIKMSGP   LVHGRPVTVN
CTVPNVYFPD   HLEIELLKGE   TTLMKKYFLE   EMGIKSLETK
ILETTFIPTI   EDTGKSLVCL   ARLHSGEMES   EPKQRQSVQP
LYVNVAPKET   TIWVSPSPIL   EEGSPVNLTC   SSDGIPAPKI
LWSRQLNNGE   LQPLSENTTL   TFMSTKRDDS   GIYVCEGINE
AGISRKSVEL   IIQVSPKDIQ   LTVFPSKSVK   EGDTVIISCT
CGNVPETWII   LKKKAKTGDM   VLKSVDGSYT   IRQAQLQDAG
IYECESKTEV   GSQLRSLTLD   VKGKEHNKDY   FSPE
  
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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

VCAM-1/CD106 protein is a cell adhesion glycoprotein primarily found on endothelial cells, and it plays a critical role in immune surveillance and inflammation. It serves as a key regulator of leukocyte adhesion to the endothelium by interacting with various integrins. During inflammatory responses, it binds to ligands on activated endothelial cells, subsequently initiating the activation of calcium channels and the plasma membrane-associated small GTPase RAC1, which in turn facilitates leukocyte transendothelial migration. Additionally, VCAM-1/CD106 protein acts as a quality-control checkpoint for entry into the bone marrow, providing a 'don't-eat-me' signal in the context of major histocompatibility complex (MHC) class-I presentation. Furthermore, in the case of microbial infection, it interacts with ECMV-D capsid proteins and functions as a receptor for this virus.

Caution: Product has not been fully validated for medical applications. For research use only.

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