Recombinant human VCAM-1/CD106 protein

Catalog Number: ATGP3468

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
25-698aa

UniProt No.
P19320

NCBI Accession No.
NP_001069

Alternative Names
Vascular cell adhesion protein 1 isoform, VCAM1, CD106, INCAM-100

PRODUCT SPECIFICATION

Molecular Weight
75.6 kDa (685aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by the ability of the immobilized protein to support the adhesion of U937 Human histiocytic lymphoma cells. When cells are added to VCAM1 coated plates 10ug/ml. This effect is more to 70%.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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Description

VCAM1, also known as vascular cell adhesion protein 1 isoform, a member of the immunoglobulin superfamily. It is a cell surface protein expressed by activated endothelial cells and certain leukocytes. VCAM1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection and asthmatic responses. During the inflammatory adhesion mechanism, activated integrins that rolling leukocytes and attach them firmly to the vascular endothelium. Recombinant human VCAM1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

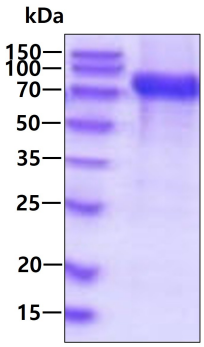
<ADPEF>FKIET TPESRYLAQI GDSVSLTCST TGCESPFFSW RTQIDSPLNG KVTNEGTTST LTMNPVSFGN EHSYLCTATC ESRKLEKGIQ VEIYSFPKDP EIHLSGPLEA GKPITVKCSV ADVYPFDRLE IDLLKGDHLM KSQEFLEDAD RKSLETKSLE VTFTPVIEDI GKVLVCRAKL HIDEMDSVPT VRQAVKELQV YISPKNTVIS VNPSTKLQEG GSVTMTCSSE GLPAPEIFWS KKLDNGNLQH LSGNATLTLI AMRMEDSGIY VCEGVNLIGK NRKEVELIVQ EKPFTVEISP GPRIAAQIGD SVMLTCSVMG CESPSFSWRT QIDSPLSGKV RSEGTNSTLT LSPVSFENEH SYLCTVTCGH KKLEKGIQVE LYSFPRDPEI EMSGGLVNGS SVTVSCKVPS VYPLDRLEIE LLKGETILEN IEFLEDTDMK SLENKSLEMT FIPTIEDTGK ALVCQAKLHI DDMEFEPKQR QSTQTLYVNV APRDTTVLVS PSSILEEGSS VNMTCLSQGF PAPKILWSRQ LPNGELQPLS ENATLTLIST KMEDSGVYLC EGINQAGRSR KEVELIIQVT PKDIKLTAFP SESVKEGDTV IISCTCGNVP ETWIILKKKA ETGDTVLKSI DGAYTIRKAQ LKDAGVYECE SKNKVGSQLR SLTLDVQGRE NNKDYFSPE<H HHHHH>

General References

Cybulsky MI., et al. (1991) Am. J. Pathol. 138:815-820.
Preiss DJ., et al. (2007) Int. J. Clin. Pract 61:697-701.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.