

# Recombinant human CD31/PECAM1 protein

Catalog Number: ATGP3214

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

28-601aa

### UniProt No.

P16284

### NCBI Accession No.

NP\_000433

### Alternative Names

CD31/EndoCAM, CD31, EndoCAM, GPIIA', PECA1, PECAM1, PECAM-1, Platelet endothelial cell adhesion molecule 1

## PRODUCT SPECIFICATION

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### Molecular Weight

65.5 kDa (582aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

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

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Tag

His-Tag

### Application

SDS-PAGE

### 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

PECAM1, also known as platelet endothelial cell adhesion molecule, induces susceptibility to atherosclerosis. It prevents phagocyte ingestion of closely apposed viable cells by transmitting detachment signals, and changes function on apoptosis, promoting tethering of dying cells to phagocytes. The encounter of a viable cell with a phagocyte via the homophilic interaction of PECAM1 on both cell surfaces leads to the viable cell's active

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repulsion from the phagocyte. Recombinant human PECAM1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

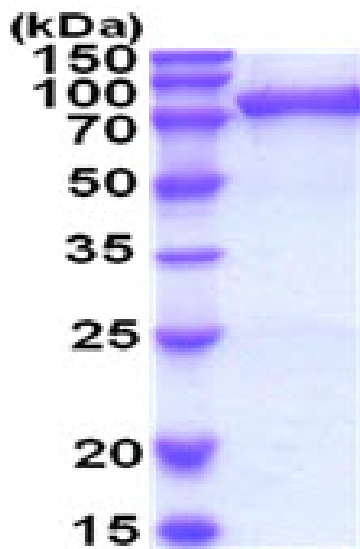
QENSFTINSV DMKSLPDWTV QNGKNLTLQC FADVSTTSHV KPQHQLFLFYK DDVLFYNISS MKSTESYFIP EVRIYDSGTY  
KCTVIVNKE KTTAEYQVLV EGVSPRVTL DKKEAIQGGI VRVNCSVPEE KAPIHFTIEK LELNEKMOVKL KREKNSRDQN  
FVILEFPVEE QDRVLSFRCQ ARIISGIHMV TSESTKSELV TVTESFSTPK FHSPTGMIM EGAQLHIKCT IQVTHLAQEF  
PEIIIQKDKA IVAHNRHGK AVYSVMAMVE HSGNYTCKVE SSRISKVSSI VVNITELFSK PELESSFTHL DQGERLNLSC  
SIPGAPPANF TIQKEDTIVS QTQDFTKIAS KSDSGTYICT AGIDKVVKKS NTVQIVVCEM LSQPRISYDA QFEVIKQTI  
EVRCEISGT LPISYQLLKT SKVLENSTKN SNDAVFKDN PTEDVEYQCV ADNCHSHAKM LSEVLRVKVI APVDEVQISI  
LSSKVVESGE DIVLQCAVNE GSGPITYKPY REKEGKPFYQ MTSNATQAFW TKQKASKEQE GEYYCTAFNR ANHASSVPRS  
KILTVRVILA PWKKVEHHHH HH

## General References

Brown S., et al. (2002) Nature. 418:200-203.  
Dasgupta B., et al. (2009) J Immunol. 182:5041-5051.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)