# Recombinant human CD31/PECAM1 protein

Catalog Number: ATGP3214

## PRODUCT INFORMATION

**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

**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)

**Biological Activity**
Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When cells are added to human CD31 coated plates 5 ug/ml. This effect is more to 40%.

**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

# Recombinant human CD31/PECAM1 protein

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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 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

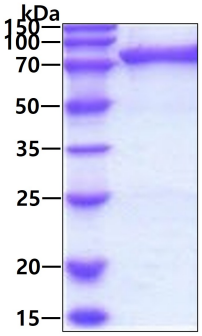
QENSFTINSV DMKSLPDWTV QNGKNLTLQC FADVSTTSHV KPQHQMLFYK DDVLFYNISS MKSTESYFIP EVRIYDSGTY KCTVIVNNKE KTTAEYQVLV EGVPSPRVTL DKKEAIQGGI VRVNCSVPEE KAPIHFTIEK LELNEKMVKL KREKNSRDQN FVILEFPVEE QDRVLSFRCQ ARIISGIHMQ TSESTKSELV TVTESFSTPK FHISPTGMIM EGAQLHIKCT IQVTHLAQEF PEIIIQKDKA IVAHNRHGNK AVYSVMAMVE HSGNYTCKVE SSRISKVSSI VVNITELFSK PELESSFTHL DQGERLNLSC SIPGAPPANF TIQKEDTIVS QTQDFTKIAS KSDSGTYICT AGIDKVVKKS NTVQIVVCEM LSQPRISYDA QFEVIKGQTI EVRCESISGT LPISYQLLKT SKVLENSTKN SNDPAVFKDN PTEDVEYQCV ADNCHSHAKM LSEVLRVKVI APVDEVQISI LSSKVVESGE DIVLQCAVNE GSGPITYKFY REKEGKPFYQ MTSNATQAFW TKQKASKEQE GEYYCTAFNR ANHASSVPRS KILTVRVILA PWKK<VEHHHH 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.