

# Recombinant human PCPE-1 protein

Catalog Number: ATGP3765

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

26-449aa

### UniProt No.

Q15113

### NCBI Accession No.

NP\_002584

### Alternative Names

Procollagen C-endopeptidase enhancer 1, PCOLCE PCPE, PCPE-1, PCPE1

## PRODUCT SPECIFICATION

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### Molecular Weight

46.6 kDa (433aa)

### Concentration

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

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl.

### 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

PCOLCE, also known as procollagen C-endopeptidase enhancer 1, is a secreted extracellular matrix glycoprotein. This protein is expressed primarily by interstitial connective tissues such as tendons, calvaria, and skin. Also, fibrillar collagen types I-III are synthesized as precursor molecules known as procollagens. These precursors contain amino- and carboxyl-terminal peptide extensions known as N- and C-propeptides, respectively, which are

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cleaved, upon secretion of procollagen from the cell, to yield the mature triple helical, highly structured fibrils. Also, this protein binds and drives the enzymatic cleavage of type 1 procollagen and heightens C-proteinase activity. Recombinant human PCOLCE, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

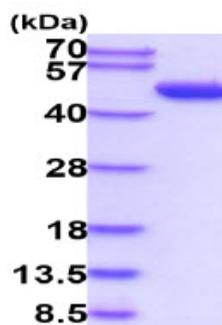
ADPQTPNYTR PVFLCGGDVK GESGYVASEG FPNLYPPNKE CIWTITVPEG QTVSLSFRVF DLELHPACRY DALEVFAGSG  
TSGQRLGRFC GTRFPAPLVA PGNQVTLRMT TDEGTGGRGF LLWYSGRATS GTEHQFCGGR LEKAQGTLTT PNWPESDYPP  
GISCSWHIIA PPDQVIALTF EKFDLEPDY CRYDSVSVFN GAVSDDSRRL GKFCGDAVPG SISSEGNELL VQFVSDLSVT  
ADGFSASYKT LPRGTAKAQ GPGPKRGTEP KVKLPPKSQP PEKTEESPSA PDAPTCPKQC RRTGTLQSNF CASSLVVTAT  
VKSMVREPGE GLAVTVSLIG AYKTGGLDLP SPPTGASLKF YVPCKQCPM KKGVSYLLMG QVEENRGPVL PPESFVVLHR  
PNQDQILTNL SKRKCPSPV RAAASQDHHH HHH

## General References

Takahara K., et al, (1994) J. Biol. Chem. 269:26280-26285.  
Scott IC., et al, (1999) Genomics 55:229-234.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

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