

# Recombinant human TIMP-2 protein

Catalog Number: ATGP1687

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

27-220aa

### UniProt No.

P16035

### NCBI Accession No.

NP\_003246

### Alternative Names

TIMP metalloproteinase inhibitor 2, CSC-21K, CSC21K

## PRODUCT SPECIFICATION

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### Molecular Weight

26.1 kDa (232aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### 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

TIMP2 is a natural inhibitor of the matrix metalloproteinases, a group of peptidases involved in of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, this protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, TIMP2 may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular. Recombinant human TIMP2 protein, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

### Amino acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMCS CSPVHPQQAF CNADVIRAK AVSEKEVDSG  
NDIYGNPIKR IQYEIKQIKM FKGPEKDIEF IYTAPSSAVC GVSLDVGGKK EYLIAGKAEG DGKMHITLCD FIVPWDTLST  
TQKSLNHRY QMGCECKITR CPMIPCYISS PDECLWMDWV TEKNINGHQA KFFACIKRSD GSCAWYRGAA PPKQEFLDIE  
DP

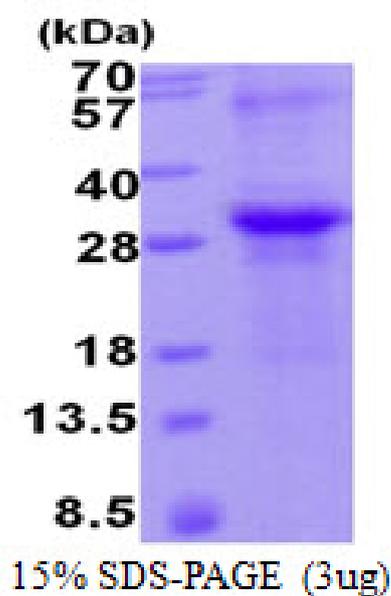
### General References

Bahudhanapati,H., et al. (2011) J. Biol. Chem. 286 (36), 31761-31770

Seo,D.W.,et al. (2011) Peptides 32 (9), 1840-1848

## DATA

### SDS-PAGE



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