

# Recombinant mouse TIMP-1 protein

Catalog Number: ATGP4040

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

25-205aa

### UniProt No.

P12032

### NCBI Accession No.

NP\_035723.2

### Alternative Names

Timp1, Cl, Clgi, EPA, Timp, TIMP-1, TPA-S1, Metalloproteinase inhibitor 1, Collagenase inhibitor 16C8 fibroblast, Erythroid-potentiating activity, TPA-induced protein

## PRODUCT SPECIFICATION

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### Molecular Weight

21kDa (187aa)

### Concentration

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

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) 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

TIMP-1, also known as metalloproteinase inhibitor 1, is a member of the TIMP family. Tissue inhibitors of metalloproteinases (TIMP) family are natural inhibitors of the matrix metalloproteinases (MMPs), the zinc enzymes involved in extracellular matrix maintenance and remodeling. In addition to its inhibitory role against

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most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. It has been identified as a multifunctional molecule with divergent functions. Recombinant Mouse TIMP-1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

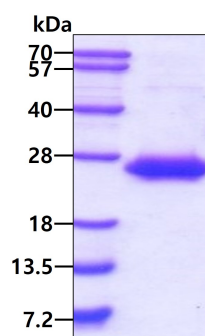
CSCAPHPQT AFCNSDLVIR AKFMGSPEIN ETTLYQRYKI KMTKMLKGFK AVGNAADIRY AYTPVMESLC GYAHKSQNRS  
EEFLITGRLR NGNLHISACS FLVPWRTLSP AQQRAFSKTY SAGCGVCTVF PCLSIPCKLE SDTHCLWTDQ VLVGSEDYQS  
RHFACLPRNP GLCTWRSLGA R<HHHHHH>

## General References

M Toricelli, et al. (2013) Molecular Cancer 12:1095.  
Gardner., et al. (2003) J. Neurosci. Res. 74:801-806.  
Osthues A., et al. (1992) FEBS. Lett. 296:16-20.

## DATA

### SDS-PAGE



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