

# Recombinant human TIMP-4 protein

Catalog Number: ATGP3407

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

30-224aa

### UniProt No.

Q99727

### NCBI Accession No.

NP\_003247

### Alternative Names

Metalloproteinase inhibitor 4, TIMP4, TIMP-4, Metalloproteinase inhibitor 4, TIMP 4, TIMP metallopeptidase inhibitor 4, TIMP-4, Timp4, TIMP4\_HUMAN, Tissue inhibitor of metalloproteinase 4, Tissue inhibitor of metalloproteinases 4

## PRODUCT SPECIFICATION

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### Molecular Weight

23.5 kDa (204aa)

### Concentration

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

### Formulation

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

### Purity

> 90% 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

TIMP4, as known as metalloproteinase inhibitor 4, is a family of secreted protein that regulates the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases. There are four known members

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of the family, TIMP1, 2, 3 and 4. TIMP4 is produced by a wide range of tissues, particularly brain, heart, ovary and skeletal muscle. Limited studies have shown that this protein has a tumor suppressive effect against Wilm's tumor, exhibits negative correlation with glioma malignancy and is found in breast carcinoma cells. Recombinant human TIMP4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

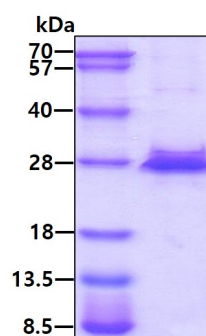
<ADP>CSCAPAH PQQHICHSAI VIRAKISSEK VVPASADPAD TEKMLRYEIK QIKMFKGF EK VKDVQYIYTP FDSSLCGVKL EANSQKQYLL TGQVLSDGKV FIHLCNYIEP WEDLSLVQRE SLNHHYHLNC GCQITTCYTV PCTISAPNEC LWTDWLLERK LYG YQAQHYV CMKHVDGTCS WYRGHLPLRK EFVDIVQP<HH HHHH>

## General References

Greene J., et al. (1996) J Biol Chem. 271:30375-80.  
Groft LL., et al. (2001) Br J Cancer. 85:55-63.

## DATA

### SDS-PAGE



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