

# TIMP2 Human, Tissue Inhibitor of Metalloprotease 2 Human Recombinant Protein, His Tag

Catalog Number: PROTP16035-1

## Introduction

TIMP2 belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases that take part in degradation of the extracellular matrix. Besides having an inhibitory role against metalloproteinases, the encoded protein has a exclusive part among TIMP family members in its capability to directly suppress the proliferation of endothelial cells. Consequently, the encoded protein is crucial to the conservation of tissue homeostasis by suppressing the production of quiescent tissues as an answer to angiogenic factors, and by inhibiting protease activity in tissues undergoing renovation of the extracellular matrix.

## Overview

|              |   |
|--------------|---|
| Product Name | TIMP2 Human, Tissue Inhibitor of Metalloprotease 2 Human Recombinant Protein, His Tag   |
| Description  | TIMP2 Human Recombinant produced in E. coli is a single polypeptide chain containing 232 amino acids (27-220) and having a molecular mass of 26.1 kDa.<br>TIMP2 is fused to a 38 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. |
| Size         | 5ug, 20ug, 1mg  |
| Tag          |   |
| Form         | Sterile Filtered colorless solution.  |
| Source       | E.coli.   |
| Formulation  | The TIMP2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 10% glycerol.  |

## Concentration

## Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

## Purity

Greater than 85% as determined by SDS-PAGE.

## Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHM CS CSPVHPQQAF CNADVIRAK AVSEKEVDSG NDIYGNPIKR IQYEIKQIKM  
FKGPEKDIEF IYTAPSSAVC GVSLDVGGKK EYLIAGKAEG DGKMHITLCD FIVPWDTLST TQKKSLNHRY QMGCECKITR CPMIPCYISS  
PDECLWMDWV TEKNINGHQA KFFACIKRSD GSCAWYRGAA PPKQEFLDIE DP [?/description\\_after\\_attributes?](#)

## Usage

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