

# Product information



## TIMP2, 27-220aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1687

**Full name:** TIMP metalloproteinase inhibitor 2

**NCBI Accession No.:** NP\_003246

**Synonyms:** CSC-21K

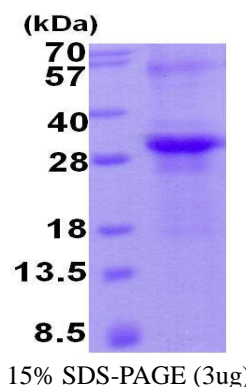
**Description:** TIMP2 is a natural inhibitor of the matrix metalloproteinases, a group of peptidases involved in of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, this protein has a unique role among TIMP family members in its ability to directly suppress the 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* and purified by using conventional chromatography techniques.

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

**Molecular Weight:** 26.1 kDa (232aa), confirmed by MALDI-TOF

**Purity:** > 85% by SDS - PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)



### Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSIMCS CSPVHPQAF CNADVIRAK AVSEKEVDSG ND IYGNPIKR IQYEIKQIKM  
FKGPEKDIEF IYTAPSSAVC GVSLDVGKK EYL IAGKAEG DGKMHITLCD FIVPWTLSST TQKSLNHRV 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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)