

Recombinant Human TIMP2, His-tagged

Cat. No. TIMP2-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TIMP2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	27-220aa
Description	This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein 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 matrix.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	26.1 kDa (232aa), confirmed by MALDI-TOF
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMFKGPEKDIEF

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IYTAPSSAVC GVSLDVGGKK EYLIAGKAEG DGKMHITLCD FIVPWDTLST
TQKKSLNHRY QMGCECKITR CPMIPCYISS CS CSPVHPQQAF CNADVIRAK
AVSEKEVDSG NDIYGNPIKR IQYEIKQIKM PDECLWMDWV TEKNINGHQA
KFFACIKRSD GSCAWYRGAA PPKQEFLDIE DP

Purity > 85% by SDS - PAGE

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.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [TIMP2](#) [TIMP metalloproteinase inhibitor 2 \[Homo sapiens \(human\) \]](#)

Official Symbol TIMP2

Synonyms TIMP2; TIMP metalloproteinase inhibitor 2; DDC8; CSC-21K; metalloproteinase inhibitor 2; tissue inhibitor of metalloproteinases 2

Gene ID [7077](#)

mRNA Refseq [NM_003255](#)

Protein Refseq [NP_003246](#)

MIM [188825](#)

UniProt ID P16035

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Chromosome Location	17q25
Pathway	Activation of Matrix Metalloproteinases; Angiogenesis; Degradation of the extracellular matrix; Extracellular matrix organization
Function	enzyme activator activity; integrin binding; metal ion binding; metalloendopeptidase inhibitor activity

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