



Recombinant Human TIMP-2

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Cat.-no.:	100-431S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	7077
Synonyms:	Tissue inhibitor of metalloproteinases 2, CSC-21K

TIMP-2 is an extracellular inhibitor of MMPs including MMP1, 2, 3, 7, 8, 9, 10, 12, 13, 14, 15, 16 and 19. It belongs to the I35 (TIMP) family of irreversible protease inhibitors that function as key modulators of extracellular matrix degradation during tissue development and remodeling. TIMP-2 can also act through an MMP-independent mechanism inhibiting endothelial cell proliferation in vitro and demonstrates anti-angiogenic activities in vivo. Recombinant human TIMP-2 is a 21.8 kDa protein containing 194 amino acid residues.

Sequence

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CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI  
KRIQYEIKQI KMFKGPEKDI EFIYTAPSSA VCGVSLDVGG  
KKEYLIAGKA EGDGKMHTL CDFIVPWTLL STTQKKSLLN  
RYQMGCECKI TRCPMPCYI SSPDECLWMD WVTEKNINGH  
QAKFFACIKR SDGSCAWYRG AAPPKQEFLL IEDP
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Database References

Protein RefSeq:	NP_003246
Uniprot ID:	P16035
mRNA RefSeq:	NM_003255

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	194
MW:	21.8 kDa

Biological Activity: TIMP-2 activity was measured by its ability to inhibit human MMP-1 induced hydrolysis of a chromogenic peptide substrate at room temperature. Half maximal inhibition was obtained at a TIMP-2 concentration of approximately 0.5 µg/ml, when using an MMP-1 co



AVOID REPEATED FREEZE AND THAW CYCLES!