

TIMP2 / TIMP-2 recombinant protein

Recombinant Human TIMP2 / TIMP-2 Protein

CATALOG # AAA173568	HOST Human Cells
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PRODUCT SYNONYMS

TIMP2 / TIMP-2; Recombinant Human TIMP2 / TIMP-2 Protein; CSC-21K; TIMP2; TIMP2 / TIMP-2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 96 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4
Sequence Length	220
Predicted N Terminal	Met
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C

ADDITIONAL INFORMATION

Related Product Information for TIMP2 / TIMP-2 recombinant protein	Background: Tissue inhibitors of metalloproteinases (TIMP) family are natural inhibitors of the matrix metalloproteinases (MMPs), the zinc enzymes involved in extracellular matrix maintenance and remodeling. The TIMP family encompasses four members (TIMP1-4), and they inhibit most MMPs by forming non-covalent binary complex. TIMP2 is a 22 kDa non N-glycosylated protein expressed by a variety of cell type s, and plays a unique role among TIMP family members owing to its functions to regulate cellular responses to growth factors. Findings establish an unexpected, MMP-independent mechanism for TIMP2 inhibition of endothelial cell proliferation in vitro and reveal an important component of the antiangiogenic effect of TIMP2 in vivo. TIMP-2 thus is critical to the maintenance of tissue homeostasis and is involved in the regulation of tumor microenvironment. Description: A DNA sequence encoding the mature form of human TIMP2 (NP_003246.1) (Cys 27-Pro 220) was expressed and purified.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507511
NCBI GeneID	7077
NCBI Accession #	NP_003246.1
NCBI GenBank Nucleotide #	NM_003255.4
UniProt Accession #	P16035 ; Q16121 ; Q93006 ; Q9UDF7
Molecular Weight	24,399 Da
NCBI Official Full Name	metalloproteinase inhibitor 2
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 2
NCBI Official Symbol	TIMP2

NCBI Official Synonym Symbols	DDC8; CSC-21K
NCBI Protein Information	metalloproteinase inhibitor 2
UniProt Protein Name	Metalloproteinase inhibitor 2
UniProt Gene Name	TIMP2
UniProt Synonym Gene Names	TIMP-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/timp2-recombinant-protein-human/173568>