

TIMP1 active protein

TIMP1 protein

CATALOG # AAA75581	HOST Human
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PRODUCT SYNONYMS

TIMP1; TIMP1 protein; TIMP 1 protein; TIMP-1 protein; TIMP-1; Tissue inhibitor of metalloproteinases: Fibroblast collagenase inhibitor; Erythroid-potentiating activity protein; TIMP 1; TIMP1 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 95% pure
Form/Format	Supplied as a lyophilized powder.
Concentration	10ug/vial; lyophilized (varies by lot)
Sequence	Region of TIMP1 protein corresponds to amino acids CTCVP PHPQTAF CNS DLVIRAKFVG TPEVNQTTLY QRYEIKMTKM YKGFQALGDA ADIRFVYTPA MESVCGYFHR SHNRSEEFLL AGKLQDGLLH ITTCSFVAPW NSLSLAQRRG FTKTYTVGCE ECTVFPCLSI PCKLQSGTHC LWTDQLLQGS EKGFSRHLA CLPREPGLCT WQSLRSQIA.
Sequence Length	207
Protein Type	Recombinant
Biological Significance	TIMP1 is an extracellular inhibitor of MMPs (see above) including MMP1, 2, 3, 7, 8, 9, 10, 11, 12, 13, and 16. 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. TIMP1 can also act through an MMP-independent mechanism to promote erythropoiesis by stimulating proliferation and differentiation of erythroid progenitors.
Bioactivity	TIMP1 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-1 concentration of approximately 0.5 ug/ml, when using an MMP-1 concentration of 1.6 ug/ml.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TIMP1 active protein	Purified recombinant Human TIMP1 protein
Product Categories/Family for TIMP1 active protein	Proteases ; Inhibitors ; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	546974
NCBI GeneID	282092

UniProt Accession #	P20414; Q3T098; Q53ZP2; Q9TVB0
Molecular Weight	20.6 kDa
NCBI Official Full Name	TIMP-1
NCBI Official Symbol	TIMP1
NCBI Protein Information	metalloproteinase inhibitor 1
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Gene Name	TIMP1
UniProt Synonym Gene Names	EG-1; TIMP-1
UniProt Entry Name	TIMP1_BOVIN

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://stage.aaabiotech.com/human-active-protein/timp1/75581>