

Recombinant Human TIMP Metallopeptidase Inhibitor 1

Cat. No. TIMP1-5140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TIMP1 was expressed in E. coli and purified by using SDS PAGE and HPLC.
Species	Human
Source	Human
Description	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.
Form	Supplied as a lyophilized powder.
Purity	>95% pure by SDS PAGE and HPLC
Sequence	Region of TIMP1 protein corresponding to amino acids CTCVPPHPQT AFCNSDLVIR AKFVGTPEVNQTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITTCSEFVAPWNSLSL AQRRGFTKTY TVGCEECTVF PCLSIPCKLQ SGTCLWTDQ LLQGSEKGFQ SRHLACLPREPGLCTWQSLR SQIA
Molecular Mass	20.6 kDa

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Applications	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	TIMP1
GENE INFORMATION	
Gene Name	TIMP1 TIMP metalloproteinase inhibitor 1 [Homo sapiens]
Synonyms	TIMP1; TIMP metalloproteinase inhibitor 1; EPA; EPO; HCI; CLGI; TIMP; FLJ90373; metalloproteinase inhibitor 1; TIMP-1; OTTHUMP00000023214; OTTHUMP00000023216; collagenase inhibitor; erythroid potentiating activity; erythroid-potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinases 1; tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor); Erythroid-potentiating activity; Tissue inhibitor of metalloproteinases 1
Gene ID	7076
mRNA Refseq	NM_003254
Protein Refseq	NP_003245
MIM	305370
UniProt ID	P01033
Chromosome	Xp11.3-p11.23

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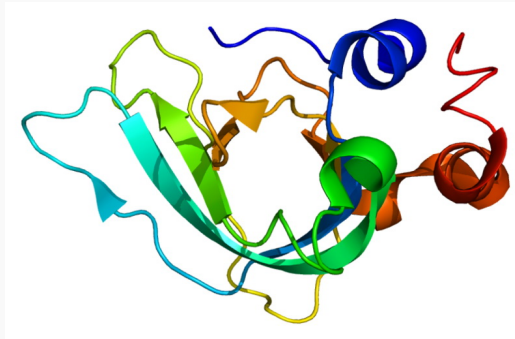
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Location**Pathway**

Formation of Platelet plug; Hemostasis; IL6-mediated signaling events; MatrixMetalloproteinases; Platelet Activation; Platelet degranulation; Response to elevated platelet cytosolic Ca²⁺

Function

enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity; protein binding

PDB rendering based on 1d2b.

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