

Human TIMP1

Alternate names:	CLGI, EPA, Erythroid-potentiating activity, Fibroblast collagenase inhibitor, Metalloproteinase inhibitor 1, TIMP, TIMP-1, Tissue inhibitor of metalloproteinases
Catalog No.:	AR09487PU-N
Quantity:	10 µg
Background:	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.
Uniprot ID:	P01033
NCBI:	NP_003245
GeneID:	7076
Species:	Human
Source:	E. coli
Format:	State: Lyophilized purified protein. Purity: >95% pure by SDS-PAGE gel and HPLC analyses. Endotoxin Level: < 0.1 ng per µg (1EU/µg) Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml.
Description:	Recombinant Human TIMP-1 is a 20.6 kDa protein containing 184 amino acid residues. AA Sequence: CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITCS FVAPWNSLSL AQRRTKTY TVGCEECTVF PCLSLPCKLQ SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIA Biological Activity: 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 µg/ml, when using an MMP-1 concentration of 1.6 µg/ml. Molecular weight: 20.6 kDa (184 aa)
Add. Information:	Centrifuge vial before opening.
Storage:	Store the lyophilized protein at -20°C. Following reconstitution product is stable for 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.