

Product datasheet for **TP723447**

TIMP1 (NM_003254) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human TIMP metallopeptidase inhibitor 1 (TIMP1).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITTCS FVAPWNSLSL AQRRTGFTKY TVGCEECTVF PCLSLPCKLQ SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIA
Tag:	Tag Free
Predicted MW:	20.6 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
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 1.6ug/mL.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_003245
Locus ID:	7076
UniProt ID:	P01033
RefSeq Size:	931
Cytogenetics:	Xp11.3
RefSeq ORF:	621
Synonyms:	CLGI; EPA; EPO; HCI; TIMP; TIMP-1



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Summary:

This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome, Secreted Protein

Product images: