

Product datasheet for **TP723878**

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:	HEK293
Expression cDNA Clone or AA Sequence:	Human TIMP-1, the region of Cys24-Ala207, from gene Accession# NP_003245.1
Tag:	C-His
Predicted MW:	22 kDa
Concentration:	lot specific
Purity:	>90%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM sodium Acetate, 150 mM NaCl, pH 5.0
Bioactivity:	Human TIMP-1 inhibits the activity of activated mouse MMP-9 (100 ng/mL). The is IC ₅₀ = 34 ng/mL.
Endotoxin:	Less than 1.0 EU per µg of protein as determine by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_003245
Locus ID:	7076
UniProt ID:	P01033
RefSeq Size:	931
Cytogenetics:	Xp11.3
RefSeq ORF:	621
Synonyms:	CLGI; EPA; EPO; HCl; 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: