

Recombinant Human TIMP Metalloproteinase Inhibitor 1

Cat. No. TIMP1-2530H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	CHO
Description	<p>Tissue Inhibitor of Metalloproteinases 1, also known as TIMP1 is a widely expressed, secreted protein that functions primarily to inhibit members of a large family of metalloproteinases (MPs). Because of the ability of TIMP-1 to inhibit MPs, it functions in many of the same pathophysiological processes as these enzymes, e.g. wound healing, ovulation, angiogenesis, and cancer cell metastasis. TIMP-1 can also stimulate proliferation and cellular anabolic processes. TIMP-1 is a novel negative regulator of HGF activity during liver regeneration. Overexpression of TIMP-1 could promote renal interstitial fibrosis through the inflammatory pathway, which might be partly induced by upregulating ICAM-1.</p>
Biochem/physiol Actions	TIMP-1 has greater binding efficiency to MMP-9, MMP-1, and MMP-3 than the other MMPs.
Physical Form	Supplied in 0.01 M sodium phosphate buffer pH 7.3, 0.15 M NaCl.
Concentration	~500 µg/mL protein.
Form	buffered aqueous solution.
Mol Wt	mol wt ~29 kDa.

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Storage Temp -20°C.

GENE INFORMATION

Gene Name [TIMP1](#) [TIMP metalloproteinase inhibitor 1 \[Homo sapiens \]](#)

Synonyms [TIMP1](#); [TIMP metalloproteinase inhibitor 1](#); [EPA](#); [EPO](#); [HCI](#); [CLGI](#); [TIMP](#); [FLJ90373](#); [tissue inhibitor of metalloproteinase 1](#); [erythroid potentiating activity](#); [fibroblast collagenase inhibitor](#); [tissue inhibitor of metalloproteinase 1 \(erythroid potentiating activity, collagenase inhibitor\)](#); [Tissue inhibitor of metalloproteinases](#); [TIMP-1](#); [Collagenase inhibitor](#); [OTTHUMP00000023214](#); [Erythroid-potentiating activity](#)

Gene ID [7076](#)

mRNA Refseq [NM_003254](#)

Protein Refseq [NP_003245](#)

MIM [305370](#)

UniProt ID [P01033](#)

Chromosome Location Xp11.3-p11.23

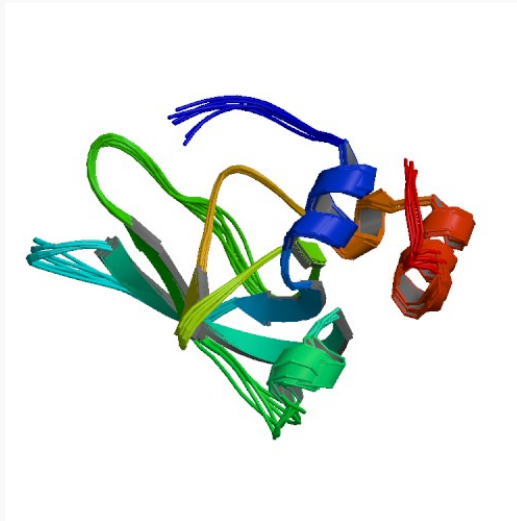
Function [enzyme inhibitor activity](#); [metalloendopeptidase inhibitor activity](#); [protein binding](#)

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