# Recombinant Human TIMP Metallopeptidase Inhibitor 1

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

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | CHO |
| **Description** | 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. |
| **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. |

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| **Mol Wt** | mol wt ~29 kDa. |
| **Storage Temp** | −20°C. |

## GENE INFORMATION

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| **Gene Name** | TIMP1 TIMP metallopeptidase inhibitor 1 [ Homo sapiens ] |
| **Synonyms** | TIMP1; TIMP metallopeptidase 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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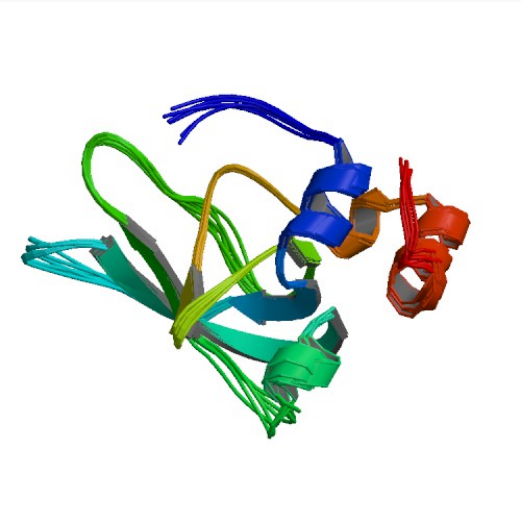
**PDB rendering based on 1d2b.**



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