

Recombinant Human TIMP Metalloproteinase Inhibitor 1

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

SPECIFICATION

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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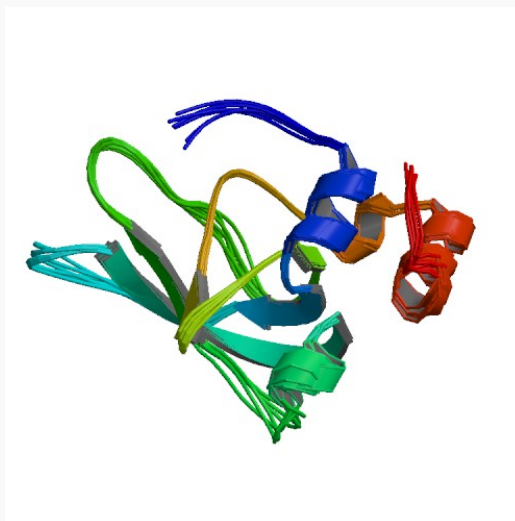
Mol Wt	mol wt ~29 kDa.
Storage Temp	-20°C.
GENE INFORMATION	
Gene Name	TIMP1 TIMP metalloproteinase inhibitor 1 [Homo sapiens]
Synonyms	TIMP1; TIMP metalloproteinase inhibitor 1; EPA; EPO; HCI; CLGI; TIMP; FLJ90373; tissue inhibitor of metalloproteinase 1; erythroid potentiating activity; fibroblast 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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