Recombinant Rat TIMP Metallopeptidase Inhibitor 1

Cat. No. Timp1-1798R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Rat
Source	Mammalian Cells
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.
Molecular Weight	The predicted molecular weight of Recombinant Rat TIMP-1 is Mr 21.5 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 32-34 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.

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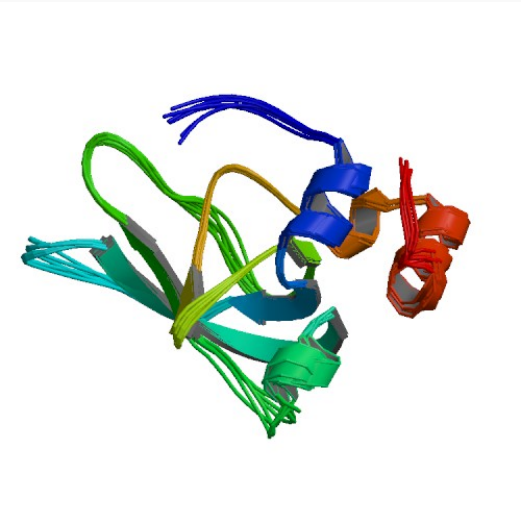
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Timp1 TIMP metallopeptidase inhibitor 1 [Rattus norvegicus]
Synonyms	Timp1; TIMP metallopeptidase inhibitor 1; Timp; TIMP-1; tissue inhibitor of metallopeptidase 1
Gene ID	116510
mRNA Refseq	NM_053819
Protein Refseq	NM_053819
UniProt ID	P30120
Chromosome Location	Xq12
Function	metalloendopeptidase inhibitor activity; protein binding

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PDB rendering based on 1d2b.



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