

Native Human TIMP-1

Cat. No. TIMP1-92H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Neutrophil
Description	The tissue inhibitor of metalloproteinases (TIMP-1) is a glycoprotein with a molecular mass of about 28-kDa. The secreted protein consists of 184 amino acids, six disulfide bonds and two glycosylation sites containing N-linked oligosaccharides. TIMP-1 specifically inhibits the extracellular-matrix-degrading metalloproteinases such as collagenase, gelatinase and stromelysin. It has no activity on mammalian membrane metalloproteinases, procollagen peptidase, or on bacterial metalloproteinases such as thermolysin.
Form	Liquid
Molecular Mass	28.0 kDa
Purity	Purity by SDS-PAGE: ≥92%
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening
Storage	-80°C

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Storage Buffer	In 50 mM Tris-HCl, pH 7; 200 mM NaCl; 5 mM CaCl ₂ ; 1 μM ZnCl ₂ ; 0.05% Brij 35; 0,05% NaN ₃
Shipping	Dry Ice
GENE INFORMATION	
Gene Name	TIMP1 TIMP metalloproteinase inhibitor 1 [Homo sapiens]
Official Symbol	TIMP1
Synonyms	TIMP1; TIMP metalloproteinase inhibitor 1; CLGI, TIMP, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor); metalloproteinase inhibitor 1; EPO; TIMP-1; collagenase inhibitor; erythroid potentiating activity; er
Gene ID	7076
mRNA Refseq	NM_003254
Protein Refseq	NP_003245
MIM	305370
UniProt ID	P01033
Chromosome Location	Xp11.3-p11.23
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix

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organization, organism-specific biosystem; Hemostasis, organism-specific biosystem;
IL6-mediated signaling events, organism-specific biosystem; Matrix
Metalloproteinases, organism-specific biosystem; Platelet activation, signaling and
aggregation, organism-specific biosystem;

Function

enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity;
metalloendopeptidase inhibitor activity; protein binding;

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