

Recombinant Human TIMP Metallopeptidase Inhibitor 1

Cat. No. TIMP1-2886H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TIMP1 is expressed in Sf9 cells.

Species Human

Source Sf9 Cells

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 metallo-proteinases, procollagen peptidase, or on bacterial metalloproteinases such as thermolysin.

Form Liquid, in 50 mM Tris-HCl, pH 7; 200 mM NaCl; 5 mM CaCl₂; 1 μM ZnCl₂; 0.05% Brij 35; 0,05% NaN₃.

Specific Activity It is recommended to perform a pre-incubation of about 20 min / 37°C which allows the formation of the enzyme-inhibitor complex.

Purity >92%, homogenous by electrophoresis and western blotting analysis.

Stability And Storage The TIMP-1 is very stable if stored at -70°C and can be kept at -20°C for several months and at 4°C for weeks without significant loss of activity. Repeated freezing and thawing should be avoided.

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GENE INFORMATION

Gene Name	TIMP1 TIMP metallopeptidase inhibitor 1 [Homo sapiens]
Synonyms	TIMP1; TIMP metallopeptidase inhibitor 1; EPA; EPO; HCl; 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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