

Recombinant Human TIMP1 Protein, His-tagged

Cat. No. TIMP1-132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Tissue Inhibitor of Metalloproteinases 1 is produced by our Mammalian expression system and the target gene encoding Cys24-Ala207 is expressed with a 6His tag at the Cterminus.
Species	Human
Source	Human Cells
ProteinLength	24-207 a.a.
Description	Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13, and MMP-16. TIMP-1 does not act on MMP-14.
Form	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Molecular Mass	Predicted Molecular Weight: 21.75kDa Apparent Molecular Weight: 27kDa, reducing conditions.
AA Sequence	Cys24-Ala207

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Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>90%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: Greater than 90% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	TIMP1 TIMP metalloproteinase inhibitor 1 [Homo sapiens (human)]
Official Symbol	TIMP1
Synonyms	Metalloproteinase Inhibitor 1; Erythroid-Potentiating Activity; EPA; Fibroblast collagenase Inhibitor; Collagenase Inhibitor; Tissue Inhibitor of Metalloproteinases 1; TIMP-1; CLGI; TIMP; EPA; EPO; HCI; CLGI
Gene ID	7076

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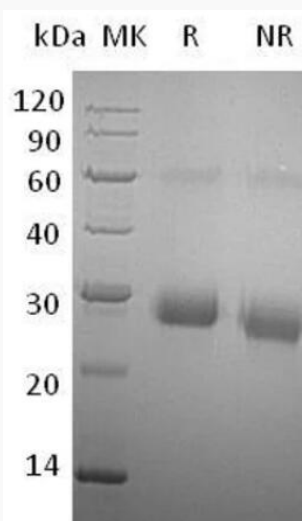
mRNA Refseq [NM_003254.3](#)

Protein Refseq [NP_003245.1](#)

MIM [305370](#)

UniProt ID [P01033](#)

SDS-PAGE



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