

Active Recombinant Human TIMP1 Protein, Tag Free

Cat. No. TIMP1-1688H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIMP1 Protein without tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	24-207 aa
Description	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction.
Form	Lyophilized from a 0.2 µm filtered solution in Sodium Acetate and NaCl.
Bio-activity	Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH ₂ . The IC ₅₀ value is approximately 2.5 nM as measured under the described conditions.

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Molecular Mass	21 kDa
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 100 μg/mL in sterile, deionized water.
N-terminal Sequence Analysis	Cys24
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; erythroid-potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinases 1; EPA; HCI; CLGI; TIMP; FLJ90373;
Gene ID	7076

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mRNA Refseq	NM_003254
Protein Refseq	NP_003245
MIM	305370
UniProt ID	Q6FGX5

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