

Active Recombinant Human TIMP3 Protein, Tag Free

Cat. No. TIMP3-2528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIMP-3 Protein (Cys24-Pro211) without tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	24-211 aa
Description	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix (ECM). Expression of this gene is induced in response to mitogenic stimulation and this netrin domain-containing protein is localized to the ECM. Mutations in this gene have been associated with the autosomal dominant disorder Sorsby's fundus dystrophy.
Form	Lyophilized from a 0.2 µm filtered solution in Tris 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 3 nM, under conditions the described conditions.
Molecular Mass	22 kDa
Endotoxin	<1.0 EU/µg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining
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 with polar packs.
Reconstitution	Reconstitute at 100 µg/mL in sterile, deionized water.
N-terminal Sequence Analysis	Cys24

GENE INFORMATION

Gene Name	TIMP3 TIMP metalloproteinase inhibitor 3 [Homo sapiens]
Official Symbol	TIMP3
Synonyms	TIMP3; TIMP metalloproteinase inhibitor 3; SFD, tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory); metalloproteinase inhibitor 3; TIMP-3; MIG-5 protein; protein MIG-5; tissue inhibitor of metalloproteinases 3; SFD; K222; K222TA2; HSMRK222;
Gene ID	7078
mRNA Refseq	NM_000362
Protein Refseq	NP_000353

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MIM	188826
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UniProt ID	P35625
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