

# Recombinant Human TIMP Metalloproteinase Inhibitor 3, GST-tagged

**Cat. No.** TIMP3-2529H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      The protein was expressed as gst-tagged fusion protein by E.Coli and purified by GSH-sepharose. The purified protein was resolved in 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

**Species**      Human

**Source**      E.coli

**Protein Length**      1-211aa

**Description**      Metalloproteinase inhibitor 3 is an enzyme that in humans is encoded by the TIMP3 gene. This gene belongs to the tissue inhibitor of metalloproteinases 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.

**Molecular Mass**      50 kDa

**Storage**      The protein is stored in PBS buffer at -20 °C. Repeated freeze-thaw cycles should be avoided.

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**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

## 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](#)

**MIM** [188826](#)

**UniProt ID** [P35625](#)

**Chromosome Location** 22q12.3

**Pathway** Endochondral Ossification, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;

**Function** enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity;

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protein binding;

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