

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 ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 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 Na₂HPO₄, 17mM NaH₂PO₄, 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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