

## Recombinant Human TIMP3 protein, His-tagged

Cat. No. TIMP3-852H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TIMP3(Cys24-Pro211) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	24-211 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µ filtered PBS solution (pH 7.4).
<b>Molecular Mass</b>	23.4 kDa
<b>Purity</b>	Purity: >90%, as determined by SDS-PAGE under reducing conditions and visualized by Coomassie blue staining.
<b>Applications</b>	ELISA, Western blotting, Dot Blotting, Immunogen, Protein Array, Function Assay, etc. Before use, heat the WBC control at 95 centigrade for 5 minutes. Spin down the

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sample and load 5  $\mu$  per lane onto SDS-PAGE gel.

**Storage**

Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.

**Reconstitution**

Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5~1.0 mg/mL with sterile deionized water or PBS.

## 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**

22q12.3

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**Location**

**Pathway**

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

**Function**

enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity; protein binding;

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