

Active Recombinant Human TIMP3 protein, His-tagged

Cat. No. TIMP3-412H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TIMP3 protein(P35625)(26~211 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	26-211 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Tissue Inhibitors Of Metalloproteinase 3 (TIMP3) is an protein belongs to the tissue inhibitor of metalloproteinases family. They are inhibitors of the matrix metalloproteinases. TIMP-3 is the only member of the TIMP family which is found exclusively in the extracellular matrix (ECM). It is regulated in a cell cycle-dependent fashion in certain cell types and may serve as a marker for terminal differentiation. The activity of recombinant human TIMP3 was measured by its ability to inhibit recombinant human MMP2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH₂ in the assay buffer 50 mM Tris, 10 mM CaCl₂, 150 mM NaCl, 0.05% Brij-35 (v/v), pH 7.5. The rhMMP-2 (APA100Hu61) was activated with 1 mM APMA at 37°C for 1h. Then 16 µl 126 ug/mL rhTIMP-3, 25.6 µ of 100 ug/ml rhMMP-2 and 118.4 µ of assay buffer was incubated for 2 hours at 37°C, including a control (in duplicate) containing assay buffer and the diluted rhMMP-2. The mixtures was diluted

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5 fold in assay buffer followed by adding 50 ul 20 uM substrate, including a control containing assay buffer and substrate. Then read at excitation and emission wavelengths of 320 nm and 405 nm (top read), respectively in kinetic mode for 5 minutes. Under these conditions, the enzyme amount of 50% inhibition of rhMMP-2 activity per minute is defined as a unit. The specific activity of TIMP3 is >6000 U/mg.

Molecular Mass	25.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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

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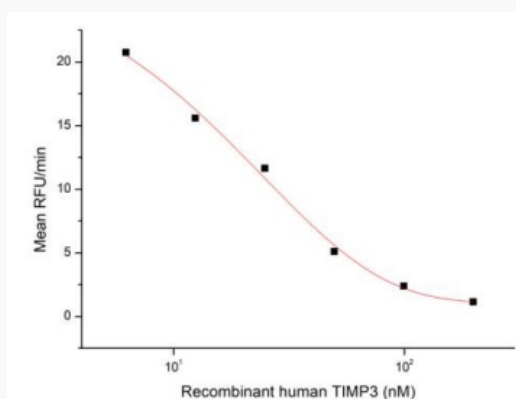
mRNA Refseq [NM_000362](#)

Protein Refseq [NP_000353](#)

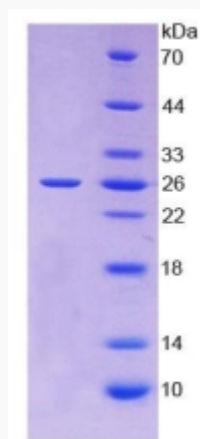
MIM [188826](#)

UniProt ID [P35625](#)

Activity



SDS-PAGE



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