

Active Recombinant Rat Timp3 protein, His-tagged

Cat. No. Timp3-547R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Timp3 protein(P48032)(27~209 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	27-209 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. Besides, Matrix Metalloproteinase 2 (MMP2) has been identified as an interactor of TIMP3, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TIMP3 and recombinant rat MMP2. Briefly, TIMP3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μ were then transferred to MMP2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TIMP3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were

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aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of TIMP3 and MMP2 was shown, and this effect was in a dose dependent manner.

Molecular Mass	22.4kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 97% 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 [<i>Rattus norvegicus</i>]
Official Symbol	Timp3
Synonyms	TIMP3; TIMP metalloproteinase inhibitor 3; metalloproteinase inhibitor 3; TIMP-3; tissue inhibitor of metalloproteinases 3; tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory);
Gene ID	25358
mRNA Refseq	NM_012886

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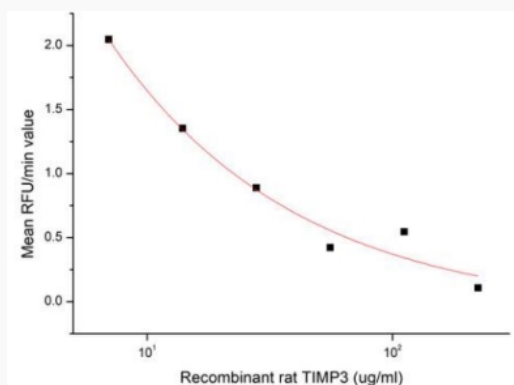
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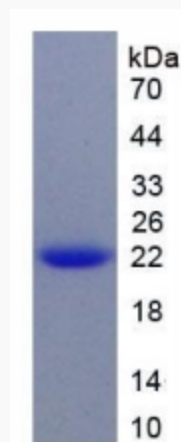
Protein Refseq

NP_037018

Activity



SDS-PAGE



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