

Active Recombinant Mouse Timp3 protein, His-tagged

Cat. No. Timp3-546M Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Active Recombinant Mouse Timp3 protein(P39876)(20~211 aa), fused with N-terminal His tag, was expressed in E.coli. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | 20-211 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 a 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 mouse TIMP3 was measured by its ability to inhibit rhMMP2 cleavage of a fluorogenic peptide substrate MCA-Pro-Leu-Gly-Leu-DPA-Ala-Arg-NH ₂ in the assay buffer 50 mM Tris, 10 mM CaCl ₂ , 150 mM NaCl, 0.05% (w/v) Brij-35, pH 7.5. rhMMP2 was diluted to 100 ug/ml and activated with 1 mM APMA at 37°C for 1 hour and rmTIMP3 (MW: 23.25 KD) was diluted to different concentrations with the assay buffer. Mix 8 μl of rmTIMP3 curve dilutions, 12.8 μl of activated rhMMP-2, and 59.2 μl of assay buffer, including a control containing assay buffer and the diluted rhMMP-2 and incubate the react |

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ions for 2 hours at 37°C. Loading 50 µof the incubated mixtures which were diluted five-fold in assay buffer into empty wells of a plate, and start the reaction by adding 50 µ of 20 M substrate. Include a substrate blank containing 50 µof assay buffer and 50 µof 20 M substrate. Then read at excitation and emission wavelengths of 320 nm and 405 nm, respectively, in kinetic mode for 5 minutes. The result was shown and it was obvious that recombinant mouse TIMP3 significantly decreased rhMMP2 activity. The inhibition IC50 was <26 nM.

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| Molecular Mass | 23.3kDa |
| 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

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|------------------------|--|
| Gene Name | <i>Timp3</i> tissue inhibitor of metalloproteinase 3 [<i>Mus musculus</i>] |
| Official Symbol | <i>Timp3</i> |
| Synonyms | TIMP3; tissue inhibitor of metalloproteinase 3; metalloproteinase inhibitor 3; tissue inhibitor of metalloproteinases 3; Timp-3; |
| Gene ID | 21859 |

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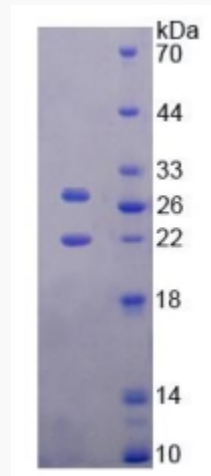
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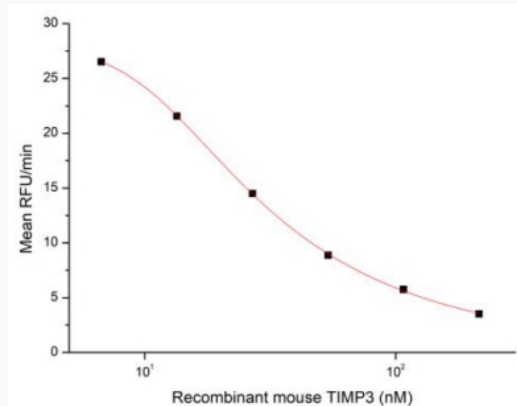
mRNA Refseq [NM_011595](#)

Protein Refseq [NP_035725](#)

SDS-PAGE



Activity



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