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## Product Datasheet

### Rat TIMP3 protein, His tag, Unconjugated GTX00064-PRO

Article Name	Rat TIMP3 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00064-PRO
Supplier Catalog Number	GTX00064-pro
Alternative Catalog Number	GTX00064-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	<a href="#">25358</a>
UniProt	<a href="#">P48032</a>
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ser27~Thr209

#### Application Notes

Tissue Inhibitors Of Metalloproteinase 3 (TIMP3) is a protein that 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 was diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl 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 aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of TIMP3 and MMP2 was in a dose dependent manner.