

Rat TIMP1 ELISA Kit | TIMP1 elisa kit

Rat TIMP1 ELISA Kit

CATALOG # AAA105818	REACTIVITY Rat	APPLICATIONS ELISA
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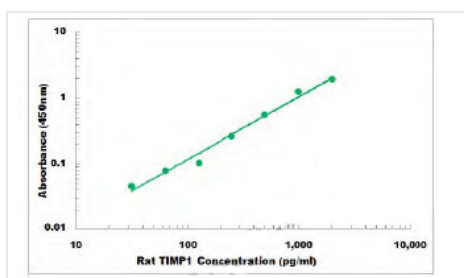
PRODUCT SYNONYMS

TIMP1; Rat TIMP1 ELISA Kit; CLGI; TIMP; Metalloproteinase inhibitor 1; Erythroid-potentiating activity; EPA; Fibroblast collagenase inhibitor; Collagenase inhibitor; Tissue inhibitor of metalloproteinases 1; TIMP-1; TIMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat TIMP1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat TIMP1 proteins within the range of 31.2 pg/ml - 2000 pg/ml.
Sequence Length	217
Samples	Cell Culture Supernatants, Serum, Plasma
Assay Type	Quantitative Sandwich
Sensitivity	<3 pg/ml.
Applicable Applications for TIMP1 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TIMP1 elisa kit	Principle of the Assay: The Rat TIMP1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat TIMP1 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Rat TIMP1 coated on a 96-well plate. Standards and samples are pipetted into the wells and TIMP1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat TIMP1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of TIMP1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: The tissue inhibitor of metalloproteinases 1 (TIMP1) is also called erythroid-potentiating activity (EPA). The X-linked gene for human TIMP1 is expressed in some but not all inactive X-containing somatic-cell hybrids, suggesting that this gene is either prone to reactivation or variable in its inactivation. Purified EPA specifically stimulates human and murine cells of the erythroid lineage, unlike murine interleukin-3 (IL-3) which stimulates precursor cells from all haematopoietic lineages. TIMP1 is thought to play a regulatory role in connective tissues by forming inactive complexes with those metalloproteinases that are normally responsible for connective tissue turnover. The human gene encoding TIMP has been mapped to the X chromosome in the region Xp11.1-p11.4.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16758666
NCBI GeneID	116510
NCBI Accession #	NP_446271.1
NCBI GenBank Nucleotide #	NM_053819.1
UniProt Accession #	P30120; P70533; Q53YM7
Molecular Weight	23,794 Da
NCBI Official Full Name	metalloproteinase inhibitor 1
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 1
NCBI Official Symbol	Timp1
NCBI Official Synonym Symbols	Timp; TIMP-1
NCBI Protein Information	metalloproteinase inhibitor 1; tissue inhibitor of metallopeptidase 1; tissue inhibitor of metalloproteinase 1; tissue inhibitor of metalloproteinases 1
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Gene Name	Timp1
UniProt Synonym Gene Names	Timp-1; TIMP-1
UniProt Entry Name	TIMP1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/timp1/105818>