

Rat TIMP metalloproteinase inhibitor 1 ELISA Kit | TIMP1 elisa kit

Rat tissue inhibitors of metalloproteinase 1, TIMP-1 ELISA Kit

CATALOG #
AAA79458

REACTIVITY
Rat

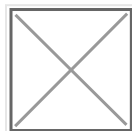
PRODUCT SYNONYMS

TIMP metalloproteinase inhibitor 1; Rat tissue inhibitors of metalloproteinase 1; TIMP-1 ELISA Kit; RP1-230G1.3; CLGI; EPA; EPO; FLJ90373; HCI; TIMP; erythroid potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinase 1; TIMP-1; TIMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat TIMP1. No significant cross-reactivity or interference between Rat TIMP1 and analogues was observed.
Sequence Length	207
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.15625ng/ml-10 ng/ml
Sensitivity	0.224 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Cardiovascular
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TIMP1 elisa kit	Introduction: TIMP metalloproteinase inhibitor 1, also known as TIMP1, a tissue inhibitor of metalloproteinases, is a glycoprotein that is expressed from the several tissues of organisms. This protein is a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TIMP-1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for TIMP-1 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5, 5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain TIMP-1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of TIMP-1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	283806670
NCBI GeneID	100009047
NCBI Accession #	NP_001075701.2
NCBI GenBank Nucleotide #	NM_001082232.2
UniProt Accession #	P20614; Q5ENG6
Molecular Weight	22,937 Da
NCBI Official Full Name	metalloproteinase inhibitor 1
NCBI Official Symbol	TIMP1
NCBI Official Synonym Symbols	TIMP-1
NCBI Protein Information	metalloproteinase inhibitor 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
UniProt Entry Name	TIMP1_RABIT

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.