

Rat TIMP-1 ELISA Kit | TIMP1 elisa kit

Rat TIMP-1 PicoKine ELISA Kit

CATALOG #
AAA11569

REACTIVITY
Rat

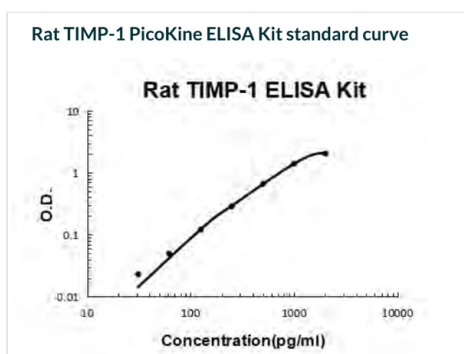
PRODUCT SYNONYMS

TIMP-1; Rat TIMP-1 PicoKine ELISA Kit; Metalloproteinase inhibitor 1; TIMP metalloproteinase inhibitor 1; C-C chemokine receptor type 5; C-C CKR-5; CC-CKR-5; CCR-5; CCR5; CCR5_HUMAN; CD195; CHEMR13; CLGI; Collagenase inhibitor; EPA; EPO; Erythroid potentiating activity; Fibroblast collagenase inhibitor; FLJ90373; HCL; HIV-1 fusion coreceptor; Human Collagenase Inhibitor; Metalloproteinase inhibitor 1 precursor; OTTHUMP00000023214; TIMP; TIMP 1; TIMP1 protein; Tissue Inhibitor of metalloproteinase 1; Tissue inhibitor of metalloproteinases; Tissue inhibitor of metalloproteinases 1; Tissue inhibitor of metalloproteinase 1 erythroid potentiating activity collagenase inhibitor; TIMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Timp1
Sequence Length	217
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<3 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TIMP1 elisa kit	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.¹ 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.² 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-p11.4.³ The standard product used in this kit is recombinant rat TIMP-1, consisting of 194 amino acids with the molecular mass of 21.5KDa. As a result of glycosylation, the molecular mass is 32-34KDa. Principle of the Assay: The Picokine™ Rat Timp1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat Timp1 with a 96-well strip plate that is pre-coated with antibody specific for Timp1. The detection antibody is a biotinylated antibody specific for Timp1. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat Timp1 with immunogen: Expression system for standard: NS0; Immunogen sequence: C24-A217. The kit is analytically validated with ready-to-use reagents. To measure Rat Timp1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Rat Timp1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Timp1 in the sample. Fo
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1174697
NCBI GeneID	116510
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.