

Human TIMP-1/TIMP1 ELISA Kit | TIMP-1/TIMP1 elisa kit

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CATALOG #
AAA258406

REACTIVITY
Human

PRODUCT SYNONYMS

TIMP-1/TIMP1; Human TIMP-1/TIMP1 ELISA Kit; TIMP-1 ELISA Kit; Human; TIMP metalloproteinase inhibitor 1; CLGI ELISA Kit; EPA ELISA Kit; EPO ELISA Kit; HCI ELISA Kit; TIMP ELISA Kit; TIMP-1/TIMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of TIMP-1/TIMP1 concentration in serum and saliva.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Saliva
Detection Range	7.8-500pg/mL
Sensitivity	3.13pg/mL
Conjugation	HRP
Interference	Preparations of the following factors at 50ng/mL in a mid-range recombinant human TIMP1 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

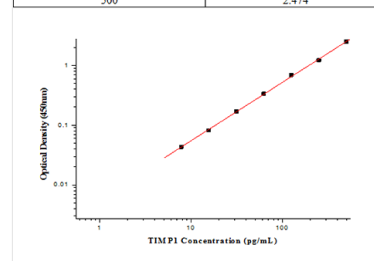
IMAGES

Recombinant human			
MMP1	MMP2	MMP3	TIMP2

Application Data

This assay recognizes both recombinant and natural Human TIMP1. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed. Cross-reactivity was observed to be 0.086% with 50ng/mL of recombinant human MMP9.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
7.81	0.043
15.63	0.082
31.25	0.169
62.5	0.334
125	0.691
250	1.228
500	2.474



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for TIMP-1/TIMP1 elisa kit	This TIMP-1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human TIMP-1 protein in Serum, Saliva. It contains recombinant Human TIMP-1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: TIMP metallopeptidase inhibitor 1, also known as TIMP-1/TIMP1, Collagenase inhibitor 16C8 fibroblast Erythroid-potentiating activity, TPA-S1TPA-induced proteinTissue inhibitor of metalloproteinases 1, is a natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. TIMP-1/TIMP1 is found in fetal and adult tissues. Highest levels are found in bone, lung, ovary and uterus. Complexes with metalloproteinases and irreversibly inactivates them by binding to their catalytic zinc cofactor. TIMP-1/TIMP1 mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. In addition to its inhibitory role against most of the known MMPs, the 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 protein encoding gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This encoding gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. Complexes with metalloproteinases and irreversibly inactivates them by binding to their catalytic zinc cofactor. TIMP-1/TIMP1 is Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16.
References	Hornebeck W (2004). Down-regulation of tissue inhibitor of matrix metalloprotease-1 (TIMP-1) in aged human skin contributes to matrix degradation and impaired cell growth and survival.. Pathol. Biol. 51 (10): 569-73. Soini Y, et al. (2001) Expression of MMP2, MMP9, MT1-MMP, TIMP-1, and TIMP2 mRNA in valvular lesions of the heart. J Pathol. 194(2):225-31. Wang X, et al. (1999) Analysis of coding sequences for tissue inhibitor of metalloproteinases 1 (TIMP-1) and 2 (TIMP2) in patients with aneurysms. Matrix Biol. 18(2):121-4.

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://stage.aaabiotech.com/human-elisa-kits/timp-1-timp1/258406>