

Human TIMP-3 ELISA Kit | TIMP3 elisa kit

Human TIMP-3 PicoKine ELISA Kit

CATALOG #
AAA45213

REACTIVITY
Human

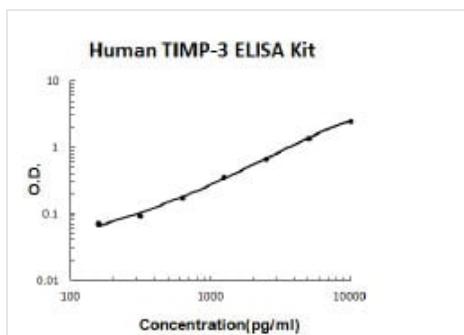
PRODUCT SYNONYMS

TIMP-3; Human TIMP-3 PicoKine ELISA Kit; Metalloproteinase inhibitor 3; TIMP metalloproteinase inhibitor 3; HSMRK222; K222; K222TA2; MIG 5 protein; Protein MIG-5; SFD; TIMP3; TIMP3_HUMAN; Tissue inhibitor of metalloproteinases 3; TIMP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TIMP3
Sequence Length	211
Samples	Cell culture supernatants, serum, plasma (heparin, edta) and saliva
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<2 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): 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 TIMP3 elisa kit

Principle of the Assay: The Picokine™ Human TIMP3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human TIMP3 with a 96-well strip plate that is pre-coated with antibody specific for TIMP3. The detection antibody is a biotinylated antibody specific for TIMP3. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human TIMP3 with immunogen: Expression system for standard: NS0; Immunogen sequence: C24-P211. The kit is analytically validated with ready-to-use reagents. To measure Human TIMP3, 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 density of the yellow product is linearly proportional to Human TIMP3 in the sample. Read the density 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 Human TIMP3 in the sample.

Background/Introduction: The tissue inhibitors of metalloproteinases (TIMPs) are natural inhibitors of the matrix metalloproteinases, a group of zinc-binding endopeptidases involved in the degradation of the extracellular matrix. The TIMP3 gene is expressed in many tissues, with highest expression in the placenta. TIMP3 encodes a potent angiogenesis inhibitor and is mutated in Sorsby fundus dystrophy, a macular degenerative disease with submacular choroidal neovascularization. TIMP3 gene is mapped to 22q12.1-q13.2. Mutations in TIMP3 cause the autosomal dominant disorder Sorsby's fundus dystrophy (SFD).

NCBI AND UNIPROT INFORMATION

NCBI GI #	730948
NCBI GeneID	7078
UniProt Accession #	P35625; Q5THV4; Q9UC74; Q9UGS2; B2RBY9
Molecular Weight	24,145 Da
NCBI Official Full Name	Metalloproteinase inhibitor 3
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 3
NCBI Official Symbol	TIMP3
NCBI Official Synonym Symbols	SFD; K222; K222TA2; HSMRK222
NCBI Protein Information	metalloproteinase inhibitor 3; TIMP-3; MIG-5 protein; protein MIG-5; tissue inhibitor of metalloproteinases 3
UniProt Protein Name	Metalloproteinase inhibitor 3
UniProt Gene Name	TIMP3
UniProt Synonym Gene Names	TIMP-3
UniProt Entry Name	TIMP3_HUMAN

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/timp3-human-elisa-kits/timp-3/45213>