

Human TIMP3 ELISA Kit | TIMP3 elisa kit

Human TIMP3 Quick ELISA Kit

CATALOG #
AAA125864

REACTIVITY
Human

PRODUCT SYNONYMS

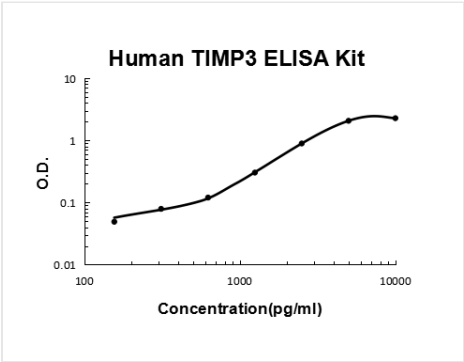
TIMP3; Human TIMP3 Quick ELISA Kit; Metalloproteinase inhibitor 3; Protein MIG-5; Tissue inhibitor of metalloproteinases 3; TIMP-3; TIMP metallopeptidase inhibitor 3; TIMP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TIMP3
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum, plasma (heparin, EDTA) and saliva
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<2pg/ml
Capture/Detection Antibodies	Capture antibody- monoclonal antibody from mouse Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.111 0.160 0.190 0.231 0.414 1.003 2.177 2.388
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 228 1364 4394 Standard deviation 14.59 90.02 237.27 CV(%) 6.4% 6.6% 5.4%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 244 1487 4066 Standard deviation 19.03 107.06 333.41 CV(%) 7.8% 7.2% 8.2%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 228 257 260 256 250 11.25 4.5% Sample 2: 1364 1309 1336 1522 1382 81.53 5.9% Sample 3: 4394 4601 4288 4589 4468 285.95 6.4% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: C24-P211
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human TIMP3 with <2pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	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 mouse monoclonal antibody specific for TIMP3. The detection antibody is a HRP linked goat polyclonal antibody specific for TIMP3. 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 HRP linked detection antibody. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding 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.
Assay Procedure Step 1	10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml, 156.25pg/ml
TMB Incubation Time	15
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



Application Data

ADDITIONAL INFORMATION

Related Product Information for TIMP3 elisa kit	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).
Product Categories/Family for TIMP3 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507513
NCBI GeneID	7078
NCBI Accession #	NP_000353.1
NCBI GenBank Nucleotide #	NM_000362.4
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://stage.aaabiotech.com/human-elisa-kits/timp3/125864>