

## Human TIMP-3 ELISA Kit | TIMP-3 elisa kit

TIMP-3 Human ELISA Kit

|                              |                            |                              |
|------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA58865</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------------|------------------------------|

### PRODUCT SYNONYMS

TIMP-3; TIMP-3 Human ELISA Kit; Human TIMP-3; TIMP-3 elisa kit

### PRODUCT SPECIFICATIONS

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Reactivity                                   | Human                                                                         |
| Samples                                      | Human serum, plasma, body fluids, tissue lysates or cell culture supernatants |
| Assay Type                                   | Quantitative Sandwich                                                         |
| Detection Range                              | 156 pg/ml-10,000 pg/ml                                                        |
| Sensitivity                                  | < 2 pg/ml                                                                     |
| Applicable Applications for TIMP-3 elisa kit | ELISA                                                                         |
| Preparation and Storage                      | Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.          |

### IMAGES

Typical Data & Standard Curve  
Results of a typical standard run of a Human TIMP-3 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

| X | Pg/ml | 0     | 156   | 312   | 625   | 1250  | 2500  | 5000  | 10,000 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Y | OD450 | 0.037 | 0.076 | 0.152 | 0.205 | 0.348 | 0.624 | 1.147 | 2.136  |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for TIMP-3 elisa kit

**Principle of the Assay:** This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TIMP-3 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TIMP-3 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TIMP-3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TIMP-3 can be calculated.

**Background/Introduction:** Metalloproteinase inhibitor 3 is an protein that in humans is encoded by the TIMP3 gene, which maps to to chromosome 22. This gene belongs to the tissue inhibitor of metalloproteinases gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix (ECM). Expression of this gene is induced in response to mitogenic stimulation and this netrin domain-containing protein is localized to the ECM. The balance of MMP and TIMP determines the net migratory capacity of DCs. Mutations in this gene have been associated with the autosomal dominant disorder Sorsby's fundus dystrophy.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 998826                                                                                                        |
| NCBI GeneID                      | 7078                                                                                                          |
| UniProt Accession #              | P35625; Q5THV4; Q9UC74; Q9UGS2; B2RBY9                                                                        |
| Molecular Weight                 | 24,145 Da                                                                                                     |
| NCBI Official Full Name          | TIMP-3                                                                                                        |
| NCBI Official Synonym Full Names | TIMP metalloproteinase 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                | <b>TIMP3</b>                                                                                                  |
| 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/timp-3/58865>