

## Mouse Tissue Inhibitor of Metalloproteinases 1 ELISA Kit | TIMP-1 elisa kit

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CATALOG #  
**AAA16044**

REACTIVITY  
**Mouse**

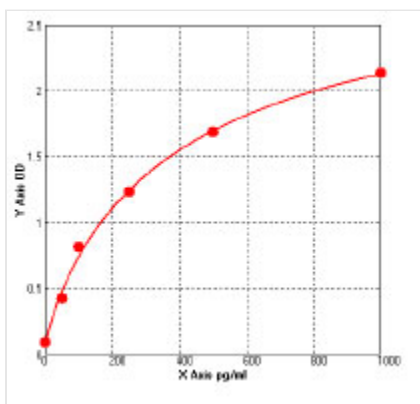
### PRODUCT SYNONYMS

Tissue Inhibitor of Metalloproteinases 1; Mouse Tissue Inhibitor of Metalloproteinases 1 ELISA Kit; TIMP-1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                     |
|-------------------------|-------------------------------------|
| Reactivity              | Mouse                               |
| Samples                 | Human Serum                         |
| Sensitivity             | 1.0 U/ml.                           |
| Preparation and Storage | Store all reagents at 2-8 degree C. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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| Related Product Information for TIMP-1 elisa kit | <p>Intended Uses: This Thrombin-Check ELISA is a solid phase enzyme immunoassay employing native human thrombin for the combined quantitative and qualitative detection of IgG, IgA and IgM antibodies against thrombin in human serum. For research use only.</p> <p>Principle of the Assay: Samples diluted 1:101 are incubated in the microplates coated with the specific antigen. The antibodies, if present in the specimen, bind to the antigen. The unbound fraction is washed off in the following step. Afterwards anti-human immunoglobulins conjugated to horseradish peroxidase (conjugate) are incubated and react with the antigen-antibody complex of the samples in the microplates. Unbound conjugate is washed off in the following step. Addition of TMBsubstrate generates an enzymatic colorimetric (blue) reaction, which is stopped by diluted acid (color changes to yellow). The intensity of color formation from the chromogen is a function of the amount of conjugate bound to the antigen-antibody complex and this is proportional to the initial concentration of the respective antibodies in the sample!!Background/Introduction: Thrombin is not a normal constituent of the circulating blood. It is generated by the catalytic cleavage of its plasma precursor, prothrombin (factor II), by the activated Stuart factor (factor Xa). This is the final step of the intrinsic and extrinsic pathways of coagulation. The transformation requires the presence of an activated cofactor, factor Va, released from factor V by thrombin itself, and whose binding to prothrombin accelerates the activity of factor Xa in a non-enzymatic manner. Thrombin is a glycoprotein formed by two peptides chains of 36 and 259 amino-acids linked by disulfure bonds. Three important sites have been identified on the surface of the enzyme: The catalytic site that confers to the molecule its serine protease activity, the exosite one responsible for the binding of the substrate (fibrinogen or thrombin receptor) and the exosite two responsible for the binding of antithrombin III and inactivation of thrombin. Thrombin is, however, more than a simple plasma enzyme. Its properties to stimulate platelets and cause them to expand aggregate and release components of the alpha and dense granules were recognized earlier on.</p> |
| Product Categories/Family for TIMP-1 elisa kit   | Cancer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 546974                                                                                                                                                                                                 |
| NCBI GeneID                      | 282092                                                                                                                                                                                                 |
| Molecular Weight                 | 23,032 Da                                                                                                                                                                                              |
| NCBI Official Full Name          | TIMP-1                                                                                                                                                                                                 |
| NCBI Official Synonym Full Names | TIMP metalloproteinase inhibitor 1<                                                                                                                                                                    |
| NCBI Official Symbol             | TIMP1                                                                                                                                                                                                  |
| NCBI Protein Information         | metalloproteinase inhibitor 1; EG-1; TIMP-1; embryogenin-1; tissue inhibitor of metalloproteinases 1; tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor) |
| UniProt Protein Name             | Metalloproteinase inhibitor 1                                                                                                                                                                          |
| UniProt Gene Name                | TIMP1                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | EG-1; TIMP-1                                                                                                                                                                                           |
| UniProt Entry Name               | TIMP1_BOVIN                                                                                                                                                                                            |

**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/timp-1-mouse-elisa-kits/tissue-inhibitor-of-metalloproteinases-1/16044>