

## General PAI-1 functional assay ELISA Kit | SERPINE1 elisa kit

Active rat PAI-1 functional assay ELISA Kit

CATALOG #  
**AAA37767**

REACTIVITY  
**General**

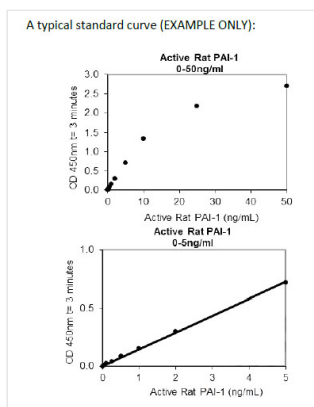
### PRODUCT SYNONYMS

PAI-1 functional assay; Active rat PAI-1 functional assay ELISA Kit; SERPINE1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | General                                                                                                                                                   |
| Specificity             | These studies are currently in progress. Please contact us for more information.                                                                          |
| Form/Format             | Complete Kit                                                                                                                                              |
| Sequence Length         | 402                                                                                                                                                       |
| Samples                 | Rat plasma                                                                                                                                                |
| Sensitivity             | 0.011 ng/ml (calculated by determining the OD of 20 reps of So and 20 reps of the low standard)                                                           |
| Intra-assay Precision   | High concentration %CV=3.5%, Medium concentration %CV=4.9%, Low concentration %CV=2.8% (calculated by running 24 reps of each concentration in one assay) |
| Inter-assay Precision   | These studies are currently in progress. Please contact us for more information.                                                                          |
| Preparation and Storage | Store at 4 degree C. Shelf Life: 12 months from manufacture, see label for expiration date                                                                |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SERPINE1 elisa kit | <p><b>Intended Uses:</b> Rat PAI-1 activity assay is intended for the quantitative determination of active plasminogen activator inhibitor type 1 in rat plasma. For research use only.</p> <p><b>Principle of the Assay:</b> Functionally active PAI-1 present in plasma reacts with urokinase coated and dried on a microtiter plate. Latent or complexed PAI-1 will not bind to the plate and will not be detected. Unbound PAI-1 samples are washed away and an anti-PAI-1 primary antibody is added. Excess primary antibody is washed away and bound antibody, which is proportional to the original active PAI-1 present in the samples, is then reacted with the horseradish peroxidase secondary antibody. Following an additional washing step, TMB is then used for color development at 450nm. The amount of color development is directly proportional to the concentration of active PAI-1 in the sample.</p> <p><b>Background:</b> Plasminogen activator inhibitor-1 (PAI-1) is a serine protease inhibitor that is an important regulator of fibrinolysis and extracellular matrix turnover [1,2,6]. PAI-1 may be important in hepatocyte growth and proliferation in vivo. Increased PAI-1 levels may increase the risk for myocardial infarction, atherosclerosis, and retinosis [3,4]. Increased PAI-1 levels may also play an important role of the development and pathogenesis of diabetic nephropathy [5]. Decreased levels may reduce thrombotic events [7].</p> |
| Product Categories/Family for SERPINE1 elisa kit   | Plasminogen Activator Inhibitor 1 (PAI-1); PAI-1 ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 6981332                                                                                                                                                                                                                                                                                                                                                                                             |
| NCBI GeneID                      | 24617                                                                                                                                                                                                                                                                                                                                                                                               |
| NCBI Accession #                 | NP_036752.1                                                                                                                                                                                                                                                                                                                                                                                         |
| NCBI GenBank Nucleotide #        | NM_012620.1                                                                                                                                                                                                                                                                                                                                                                                         |
| UniProt Accession #              | P20961                                                                                                                                                                                                                                                                                                                                                                                              |
| Molecular Weight                 | 45,010 Da                                                                                                                                                                                                                                                                                                                                                                                           |
| NCBI Official Full Name          | plasminogen activator inhibitor 1                                                                                                                                                                                                                                                                                                                                                                   |
| NCBI Official Synonym Full Names | serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1                                                                                                                                                                                                                                                                                                       |
| NCBI Official Symbol             | Serpine1                                                                                                                                                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | Pai1; PAI1A; Planh; Pai1aa; RATPAI1A                                                                                                                                                                                                                                                                                                                                                                |
| NCBI Protein Information         | plasminogen activator inhibitor 1; PAI; PAI-1; serpin E1; endothelial plasminogen activator inhibitor; serine (or cysteine) proteinase inhibitor, member 1; serine (or cysteine) peptidase inhibitor, clade E, member 1; serine (or cysteine) proteinase inhibitor, clade E, member 1; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 |
| UniProt Protein Name             | Plasminogen activator inhibitor 1                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt Gene Name                | Serpine1                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | Pai1; Planh1; PAI; PAI-1                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt Entry Name               | PAI1_RAT                                                                                                                                                                                                                                                                                                                                                                                            |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/serpine1-general-elisa-kits/pai-1-functional-assay/37767>