

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

Active human PAI-1 functional assay ELISA Kit

CATALOG #
AAA37727

REACTIVITY
General

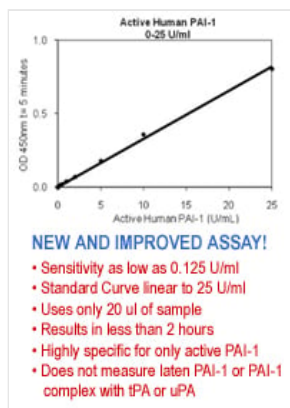
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay recognizes natural active human PAI-1. Pooled normal plasma from Sheep was assayed, and no significant cross-reactivity was observed. Pooled normal plasma from Mouse resulted in significant color development. The following factors were tested for cross-reactivity.
Form/Format	Complete Kit
Sequence Length	402
Samples	Human plasma
Sensitivity	The minimum detectable dose (MDD) was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates (range OD450: 0.161-0.178) and calculating the corresponding concentration. The MDD was 0.385 U/ml.
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in ten independent assays to assess inter-assay precision.
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	Intended Uses: This human PAI-1 activity assay is for the quantitative determination of active plasminogen activator inhibitor type 1 in human plasma. For research use only. Principle of the Assay: 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 or be detected. Unbound PAI-1 samples are aspirated and an anti-PAI-1 primary antibody is added. Excess primary antibody is then aspirated. The bound antibody, which is proportional to the original active PAI-1 present in the samples, is then reacted with the horseradish peroxidase conjugated secondary antibody. Following an additional washing step, TMB substrate solution 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. Background: PAI-1 is involved in the regulation of the blood fibrinolytic system. Increased plasma levels of PAI-1 are implicated in the impairment of fibrinolytic function and may be associated with thrombotic diseases [1,2]. Levels of PAI-1 increase with age [5] and are elevated in conditions such as normal pregnancy [3] and sepsis [4].
Product Categories/Family for SERPINE1 elisa kit	Plasminogen Activator Inhibitor 1 (PAI-1); PAI-1 ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835159
NCBI GeneID	5054
NCBI Accession #	NP_000593.1
NCBI GenBank Nucleotide #	NM_000602.4
UniProt Accession #	P05121; B7Z4S0; F8WD53
Molecular Weight	45,060 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	PAI; PAI1; PAI-1; PLANH1
NCBI Protein Information	plasminogen activator inhibitor 1; serpin E1; endothelial plasminogen activator inhibitor; 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_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/serpine1-general-elisa-kits/pai-1-functional-assay/37727>