



# Human plasminogen activator inhibitor 1,PAI-1 ELISA Kit

<b>Product Code</b>	CSB-E07946h
<b>Abbreviation</b>	SERPINE1
<b>Target Name</b>	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
<b>Uniprot No.</b>	P05121
<b>Alias</b>	PAI, PAI-1, PAI1, PLANH1, plasminogen activator inhibitor-1 serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1,tPAI-1
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	3.125 ng/mL-200 ng/mL
<b>Sensitivity</b>	2.201 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	SERPINE1
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

**Description**

This Human SERPINE1 ELISA Kit was designed for the quantitative measurement of Human SERPINE1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.125 ng/mL-200 ng/mL and the sensitivity is 2.201 ng/mL.

**Target Details**

This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.



## Product Precision

**Intra-assay Precision (Precision within an assay): CV%<8%**

Three samples of known concentration were tested twenty times on one plate to assess.

**Inter-assay Precision (Precision between assays): CV%<10%**

Three samples of known concentration were tested in twenty assays to assess.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean (ng/ml)	24.020	24.443	24.231	24.741	24.401	24.571
SD	0.043	0.039	0.041	0.043	0.039	0.042
CV(%)	5.096	4.567	4.831	4.995	4.572	4.901

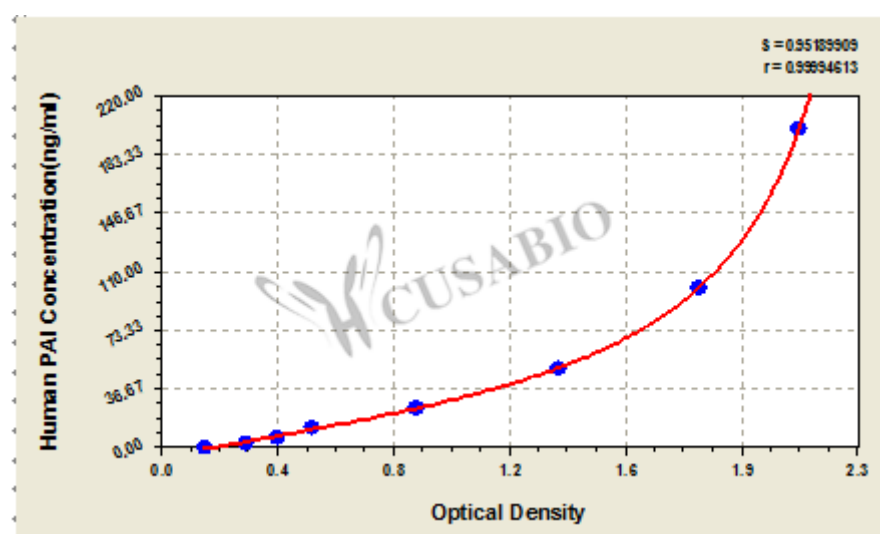
## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human PAI-1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Human Serum(n=4)
1:2	Average %	83
	Range %	80-96
1:4	Average %	90
	Range %	84-101
1:8	Average %	92
	Range %	85-105
1:16	Average %	95

## Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.





ng/ml↕	OD1↕	OD2↕	Average↕	corrected↕
0↕	0.167 ↕	0.153 ↕	0.160 ↕	↕
3.125↕	0.304 ↕	0.285 ↕	0.295 ↕	0.135 ↕
6.25↕	0.396 ↕	0.399 ↕	0.398 ↕	0.238 ↕
12.5↕	0.496 ↕	0.529 ↕	0.513 ↕	0.353 ↕
25↕	0.888 ↕	0.836 ↕	0.862 ↕	0.702 ↕
50↕	1.349 ↕	1.317 ↕	1.333 ↕	1.173 ↕
100↕	1.708 ↕	1.879 ↕	1.794 ↕	1.634 ↕
200↕	2.146 ↕	2.110 ↕	2.128 ↕	1.968 ↕

## Msd

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