Mouse plasminogen activator inhibitor 1,PAI-1 ELISA Kit

Product Code	CSB-E07947m
Abbreviation	SERPINE1
Target Name	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
Uniprot No.	P22777
Alias	PAI, PAI-1, PAI1, PLANH1, plasminogen activator inhibitor-1|serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.9 ng/mL-60 ng/mL
Sensitivity	0.22 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	Serpine1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse SERPINE1 ELISA Kit was designed for the quantitative measurement of Mouse SERPINE1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.9 ng/mL-60 ng/mL and the sensitivity is 0.22 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.

Linearity

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

?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	88-95
1:2	Average %	95
	Range %	90-100
1:4	Average %	94
	Range %	88-102
1:8	Average %	96
	Range %	91-103

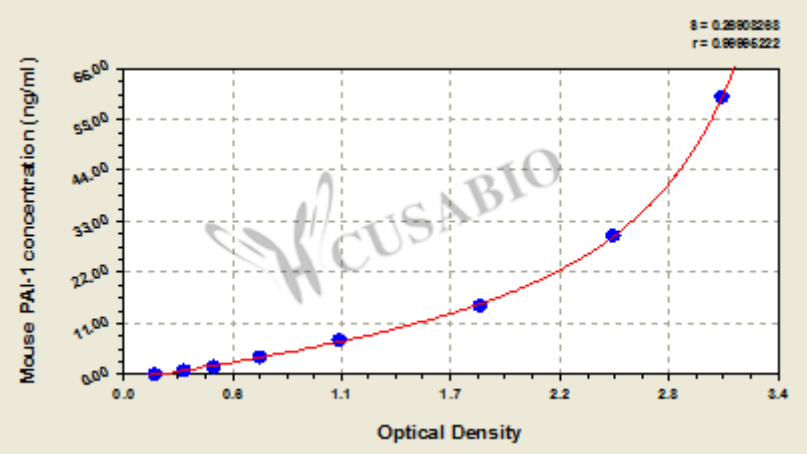
Recovery

The recovery of mouse PAI-1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	95	89-101
EDTA plasma (n=4)	95	92-103

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
60	3.033	3.108	3.071	2.894
30	2.476	2.557	2.517	2.340
15	1.887	1.785	1.836	1.659
7.5	1.117	1.124	1.121	0.944
3.75	0.711	0.719	0.715	0.538
1.8	0.488	0.468	0.478	0.301
0.9	0.329	0.332	0.331	0.154
0	0.178	0.176	0.177	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E07947m.pdf","filename":"MSDS"}}