



Rat Tissue-type Plasminogen Actilyse,t-PA ELISA Kit

Product Code	CSB-E07917r
Abbreviation	PLAT
Protein Biological Process 1	Blood Coagulation
Target Name	plasminogen activator, tissue
Uniprot No.	P19637
Alias	DKFZp686l03148, T-PA, TPA, alteplase plasminogen activator, tissue type reteplase t-plasminogen activator tissue plasminogen activator (t-PA)
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Plasminogen activation
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Cardiovascular
Gene Names	Plat
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat PLAT ELISA Kit was designed for the quantitative measurement of Rat PLAT protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.

Target Details

This gene encodes tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity



causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.

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 rat t-PA 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 %	85-97
1:2	Average %	95
	Range %	91-99
1:4	Average %	96
	Range %	89-103
1:8	Average %	100
	Range %	94-105

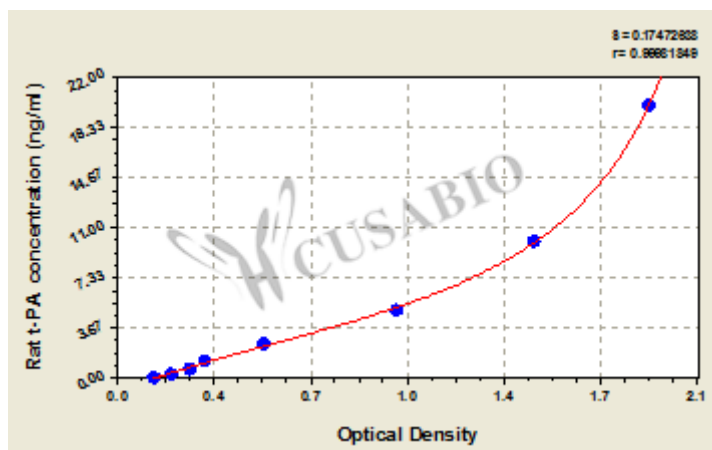
Recovery

The recovery of rat t-PA 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)	101	96-106
EDTA plasma (n=4)	94	90-98

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
20	1.946	1.846	1.896	1.753
10	1.542	1.440	1.491	1.348
5	1.019	0.989	1.004	0.861
2.5	0.536	0.529	0.533	0.390
1.25	0.330	0.320	0.325	0.182
0.625	0.278	0.268	0.273	0.130
0.312	0.205	0.201	0.203	0.060
0	0.144	0.142	0.143	?

Msds

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