



Rat Paraoxonase 1 (PON1)ELISA Kit

Product Code	CSB-E14340r
Abbreviation	PON1
Target Name	paraoxonase 1
Uniprot No.	P55159
Alias	ESA, MVCD5, PON, arylesterase B-type esterase A paraoxonase B-type serum arylalkylphosphatase
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 μ U/mL-1000 μ U/mL
Sensitivity	3.9 μ U/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	Pon1
Tag Info	quantitative
Protein Description	Sandwich

Description	This Rat PON1 ELISA Kit was designed for the quantitative measurement of Rat PON1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 μ U/mL-1000 μ U/mL and the sensitivity is 3.9 μ U/mL.
-------------	---

Target Details	The enzyme encoded by this gene is an arylesterase that mainly hydrolyzes paroxon to produce p-nitrophenol. Paroxon is an organophosphorus anticholinesterase compound that is produced in vivo by oxidation of the insecticide parathion. Polymorphisms in this gene are a risk factor in coronary artery disease. The gene is found in a cluster of three related paraoxonase genes at 7q21.3.
----------------	--

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 PON1 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)
1:200	Average %	91
	Range %	86-95
1:400	Average %	102
	Range %	97-107
1:800	Average %	91
	Range %	85-97
1:1600	Average %	97
	Range %	91-103

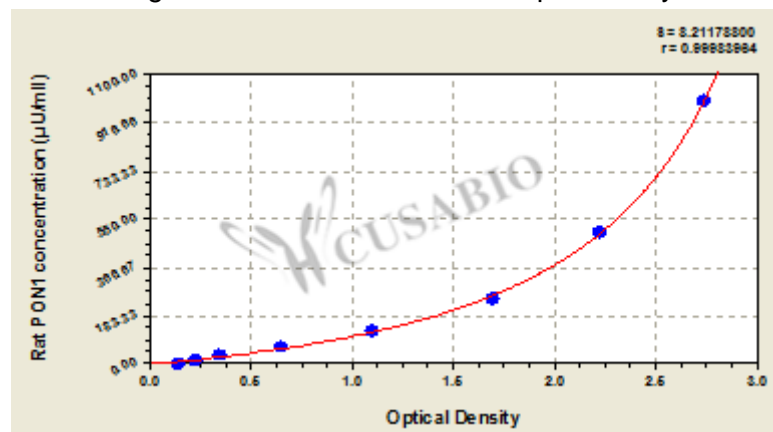
Recovery

The recovery of rat PON1 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	89-98
EDTA plasma (n=4)	97	90-100

Typical

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



μU/ml	OD1	OD2	Average	Corrected
1000	2.733	2.799	2.766	2.616
500	2.274	2.220	2.247	2.097
250	1.718	1.708	1.713	1.563
125	1.103	1.123	1.113	0.963
62.5	0.641	0.682	0.662	0.512
31.2	0.351	0.362	0.357	0.207
15.6	0.245	0.236	0.241	0.091
0	0.150	0.149	0.150	

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E14340r.pdf","filename":"MSDS"}}