

Rat Paraoxonase 1 (PON1) ELISA Kit | PON1 elisa kit

Rat Paraoxonase 1 (PON1) ELISA Kit

CATALOG #
AAA137719

REACTIVITY
Rat

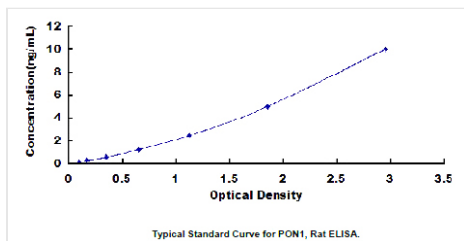
PRODUCT SYNONYMS

Paraoxonase 1 (PON1); Rat Paraoxonase 1 (PON1) ELISA Kit; ESA; PON; Esterase A; Serum paraoxonase/arylesterase 1; Aromatic esterase 1; A-esterase 1; Serum arylalkylphosphatase 1; PON1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of PON1. No significant cross-reactivity or interference between PON1 and analogues was observed.
Sequence Length	6
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.066ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PON1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PON1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PON1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PON1 in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PON1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PON1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PON1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of PON1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PON1 elisa kit	Metabolic pathway; Endocrinology
References	beta-Sitosterol mitigates hepatocyte apoptosis by inhibiting endoplasmic reticulum stress in thioacetamide-induced hepatic injury in ?-irradiated rats; Food Chem Toxicol; 2023 Feb;172:113602.; PMID: 36610474; Omayma Ar Abo-Zaid; Biochemistry and Molecular Biology Department, Faculty of Vet. Med. Benha University, Egypt. Electronic address: omayma.abozaid@fvtm.bu.edu.eg.

NCBI AND UNIPROT INFORMATION

NCBI GI #	345894407
NCBI GeneID	5444
Molecular Weight	39,731 Da
NCBI Official Full Name	paraoxonase 1, partial
NCBI Official Synonym Full Names	paraoxonase 1
NCBI Official Symbol	PON1
NCBI Official Synonym Symbols	ESA; PON; MVCD5
NCBI Protein Information	serum paraoxonase/arylesterase 1
UniProt Protein Name	Serum paraoxonase/arylesterase 1
UniProt Gene Name	PON1
UniProt Synonym Gene Names	PON; PON 1; A-esterase 1
UniProt Entry Name	PON1_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.