

ARG81509 Human PON1 / paraoxonase 1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81509-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81509-002	Standard	2 X 2 ng/vial	4°C
ARG81509-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81509-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81509-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81509-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81509-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81509-008	25X Wash buffer	20 ml	4°C
ARG81509-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81509-010	STOP solution	10 ml (Ready to use)	4°C
ARG81509-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81509 Human PON1 / paraoxonase 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human PON1 / paraoxonase 1 in serum, plasma (heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	PON1 / paraoxonase 1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.2% Inter-Assay CV: 5.8%
Alternate Names	K-45; Aromatic esterase 1; MVCD5; EC 3.1.1.81; A-esterase 1; PON; Serum paraoxonase/arylesterase 1; ESA; Serum arylalkylphosphatase 1; EC 3.1.8.1; EC 3.1.1.2; PON 1

Application Instructions

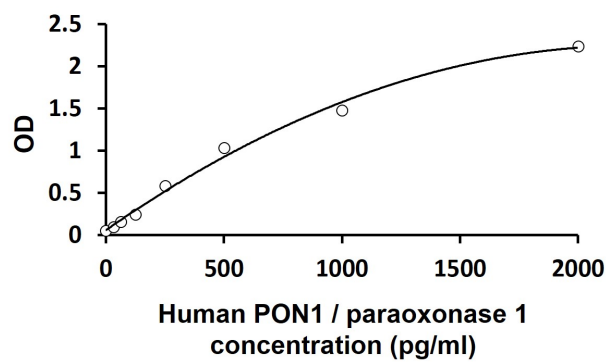
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PON1
Gene Full Name	paraoxonase 1
Background	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. [provided by RefSeq, Oct 2008]
Function	Hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. Capable of hydrolyzing a broad spectrum of organophosphate substrates and lactones, and a number of aromatic carboxylic acid esters. Mediates an enzymatic protection of low density lipoproteins against oxidative modification and the consequent series of events leading to atheroma formation. [UniProt]
Highlight	Related products: PON1 antibodies ; PON1 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Glycosylated. The signal sequence is not cleaved. Present in two forms, form B contains a disulfide bond, form A does not. [UniProt]



ARG81509 Human PON1 / paraoxonase 1 ELISA Kit standard curve image

ARG81509 Human PON1 / paraoxonase 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.