

Recombinant Human PON1, His-tagged

Cat. No. PON1-49H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Paraoxonase-1 Isoform Human Recombinant is expressed in E. coli having a molecular weight of 42.9 kDa and fused to a 4.5kDa amino terminal hexahistidine tag.
Species	Human
Source	E.coli
ProteinLength	16-355 aa
Description	Paraoxonase 1 also called Esterase-A is involved in the detoxification of organophosphate insecticides such as parathion. Paraoxonase 1 may also confer protection against coronary artery disease by destroying proinflammatory oxidized lipids present in oxidized low-density lipoproteins (LDLs).
Form	Sterile Filtered clear solution. PON1 is supplied in 20mM Tris-HCl pH 8.0 and 50% glycerol.
AA Sequence	MAKLIALTLLGMGLALFRNHQSSYQTRLNALREVQPVELPNCNLVKGIETGSEDLEIL PNGLAFISSGLKYPGI KSFNPNSPGKILLMDLNEEDPTVLELGITGSKFDVSSFNPHGI STFTDEDNAMYLLVVNHPDAKSTVELFKFQEEEEKSLLHLKTIRHKLLPNLNDIVAVGP EHFYGTNDHYFLDPYLRSEWEMYLGLAWSYVVVYSPSEVRVVAEGFD FANGINISPD GKYVYIAELLAHKIHVYEKHANWTLTPLKSLDFNTLVDNISVDPETGDLWVGCHPNG MKIFFYDSENPPASEVLRIQNILTEEPKVTQVYAENGTVLQGSTVASVYKGKLLIGTVF HKALYCELZ.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 95% as determined by SDS-PAGE. Single band on Western Blot.
Applications	Arylesterase 1 can be used directly as a positive control in Western blotting, ELISA, immunoprecipitation and other immunological experiments. The biological activity of this product has not yet been tested.
Storage	Store at 4 centigrade if entire vial will be used within 1-2 weeks. Store, frozen at -20 centigrade for longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	PON1 paraoxonase 1 [Homo sapiens]
Official Symbol	PON1
Synonyms	ESA; PON; MVCD5; serum paraoxonase/arylesterase 1; A-esterase 1; K-45; PON 1; aromatic esterase 1; arylesterase 1; arylesterase B-type; esterase A; paraoxonase B-type; serum aryldiacylphosphatase; serum aryldialkylphosphatase 1
Gene ID	5444
mRNA Refseq	NM_000446
Protein Refseq	NP_000437
MIM	168820
UniProt ID	P27169
Chromosome Location	7q21.3

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Pathway	Metabolic pathways, organism-specific biosystem; Phase I, non P450, organism-specific biosystem
Function	aryldialkylphosphatase activity; arylesterase activity; calcium ion binding

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