

## Recombinant Human PON1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	16-355 aa
<b>Description</b>	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).
<b>Form</b>	Sterile Filtered clear solution. PON1 is supplied in 20mM Tris-HCl pH 8.0 and 50% glycerol.
<b>AA Sequence</b>	MAKLIALTLLGMGLALFRNHQSSYQTRLNALREVQPVELPNCNLVKG IETGSEDL EIL PNGLAFISSGLKYPGI KSFNPNSPGKILLMDLNEEDPTVLELGITGSKFDVSSFNPHGI STFTDEDNAMYLLVVNHPDAKSTVELFKFQEEEEKSLHLKTIRHKLLPNLNDIVAVGP EHFYGTNDHYFLDPYLRWEMYLGLAWSYVVVYSPSEVRVVAEGFD FANGINISPD GKYVYIAELLAHKIHVYEKHANWTLTPLKSLDFNTLVDNISVDPETGDLWVGCHPNG MKIFFYDSENPPASEVLRIQNILTEEPKVTQVYAENGTVLQGSTVASVYKGLLIGTVF HKALYCELZ.

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<b>Purity</b>	Greater than 95% as determined by SDS-PAGE. Single band on Western Blot.
<b>Applications</b>	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.
<b>Storage</b>	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


<b>Gene Name</b>	PON1 paraoxonase 1 [ Homo sapiens ]
<b>Official Symbol</b>	PON1
<b>Synonyms</b>	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 aryldialkylphosphatase; serum aryldialkylphosphatase 1
<b>Gene ID</b>	5444
<b>mRNA Refseq</b>	NM_000446
<b>Protein Refseq</b>	NP_000437
<b>MIM</b>	168820
<b>UniProt ID</b>	P27169
<b>Chromosome Location</b>	7q21.3

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

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