

## Recombinant Human PON1, His-tagged

**Cat. No.** PON1-27936TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length PON1 protein (Human) with an amino-terminal hexahistidine tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol, 20mM Tris, pH 8
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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**Sequence Similarities** Belongs to the paraoxonase family.

## GENE INFORMATION

**Gene Name** PON1 paraoxonase 1 [ Homo sapiens ]

**Official Symbol** PON1

**Synonyms** PON1; paraoxonase 1; PON; serum paraoxonase/arylesterase 1; ESA; esterase A;

**Gene ID** 5444

**mRNA Refseq** NM\_000446

**Protein Refseq** NP\_000437

**Uniprot ID** P27169

**Chromosome Location** 7q21.3

**Pathway** Metabolic pathways, organism-specific biosystem;

**Function** aryldialkylphosphatase activity; arylesterase activity; arylesterase activity; calcium ion binding; hydrolase activity;

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