

Active Recombinant Human PON1 Protein, His-tagged

Cat. No. PON1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PON1 (16-355) protein with a His-tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	16-355
Description	This gene encodes a member of the paraoxonase family of enzymes and exhibits lactonase and ester hydrolase activity. Following synthesis in the kidney and liver, the enzyme is secreted into the circulation, where it binds to high density lipoprotein (HDL) particles and hydrolyzes thiolactones and xenobiotics, including paraoxon, a metabolite of the insecticide parathion. Polymorphisms in this gene may be associated with coronary artery disease and diabetic retinopathy. The gene is found in a cluster of three related paraoxonase genes on chromosome 7.
Form	Liquid
Bio-activity	Specific activity is > 2,500 pmol/min/g, and is defined as the amount of enzyme that hydrolyze 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH7.5 at 37 centigrade.
Molecular Mass	39 kDa

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Endotoxin	< 1 EU per 1 g of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles
Concentration	0.25 mg/ml
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

GENE INFORMATION

Gene Name	PON1 paraoxonase 1 [Homo sapiens (human)]
Official Symbol	PON1
Synonyms	PON1; paraoxonase 1; 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

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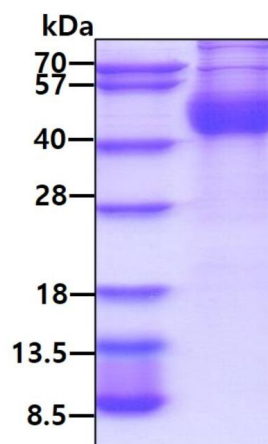
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MIM 168820

UniProt ID P27169

**SDS-PAGE Analysis
of PON1**



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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