

Active Recombinant Human PON1 Protein, His/Fc-tagged

Cat. No. PON1-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PON1 protein (Leu16-Leu355) with an N-terminal 6-His tag and a C-terminal Fc tag was expressed in Human embryonic kidney cell.
Species	Human
Source	HEK293
ProteinLength	16-355 a.a.
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.
Bio-activity	Measured by its ability to hydrolyze phenyl acetate. The specific activity is >5000 pmol/min/μg.
Molecular Mass	66 kDa
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by

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Coomassie® Blue Staining.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

Storage Buffer

Supplied as a 0.2 µm filtered solution in Tris, CaCl₂, NaCl, and 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 aryldiacylphosphatase 1; EC 3.1.1.2; EC 3.1.1.81; EC 3.1.8.1

Gene ID

5444

mRNA Refseq

NM_000446

Protein Refseq

NP_000437

MIM

168820

UniProt ID

P27169

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