

Recombinant Human PON1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PON1-1899H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PON1 MS Standard C13 and N15-labeled recombinant protein (NP_000437) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	39.7 kDa
AA Sequence	MAKLIALTLLGMGLALFRNHQSSYQTRLNALREVQPVELPNCNLVKGIETGSEDLEIL PNGLAFISSGLKYPGIKSFNPNSPGKILLMDLNEEDPTVLELGITGSKFDVSSFNPHGI STFTDEDNAMYLLVVNHPDAKSTVELFKFQEEKSLHLKLTIRHKLLPNLNDIVAVGP EHFYGTNDHYFLDPYLQSWEMYLGLAWSYVVYSPSEVRVVAEGFDFANGINISPD GKYVYIAELLAHKIHVYEKHANDWTLPLKSLDFNTLVDNISVDPETGDLWVGCHPNG MKIFFYDSENPPASEVLRIQNILTEEPKVTQVYAENGTVLQGSTVASVYKGLLIGTVF

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HKALYCELTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [PON1 paraoxonase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [PON1](#)

Synonyms PON1; paraoxonase 1; PON; serum paraoxonase/arylesterase 1; ESA; esterase A; K-45; PON 1; A-esterase 1; paraoxonase B-type; aromatic esterase 1; arylesterase B-type; serum aryldialkylphosphatase; serum aryldialkylphosphatase 1; MVCD5;

Gene ID [5444](#)

mRNA Refseq [NM_000446](#)

Protein Refseq [NP_000437](#)

MIM [168820](#)

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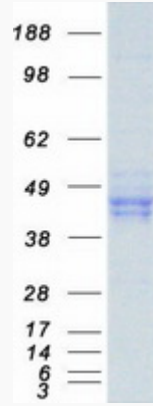
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UniProt ID

P27169

SDS-PAGE



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