

Recombinant Full Length Human PON1 Protein, C-Flag-tagged

Cat. No. PON1-499HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PON1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	39.6 kDa
AA Sequence	MAKLIALTLLGMGLALFRNHQSSYQTRLNALREVQPVELPNCNLVKGIETGSEDLEIL PNGLAFISSGLK YPGIKSFNPNSPGKILLMDLNEEDPTVLELGITGSKFDVSSFNPHGI STFTDEDNAMYLLVVNHPDAKST VELFKFQEEEEKSLLHLKTIRHKLLPNLNDIVAVGP EHFYGTNDHYFLDPYLQSWEMYLGLAWSYVVYYSP SEVRVVAEGFDFANGINISPD GKYVYIAELLAHKIHVYEKHANWTLTPLKSLDFNTLVDNISVDPETGDL WVGCHPNG MKIFFYDSENPPASEVLRIQNILTEEPKVTQVYAENGTVLQGSTVASVYKGKLLIGTVF

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	HKA LYCELTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	PON1 paraoxonase 1 [Homo sapiens (human)]
Official Symbol	PON1
Synonyms	ESA; PON; MVCD5
Gene ID	5444

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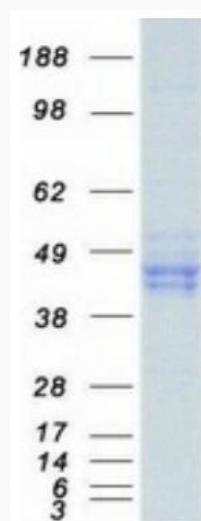
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mRNA Refseq [NM_000446.7](#)

Protein Refseq [NP_000437.3](#)

MIM [168820](#)

UniProt ID [P27169](#)



Coomassie blue staining of purified PON1 protein.

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