

Recombinant Human PON2, His-tagged

Cat. No. PON2-30704TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length PON2 protein (Human) with an amino-terminal hexahistidine tag.
Species	Human
Source	E.coli
Description	This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described.
Conjugation	HIS
Tissue specificity	Widely expressed with highest expression in liver, lung, placenta, testis and heart.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 50% Glycerol, 20mM Tris, pH 8
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the paraoxonase family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PON2 paraoxonase 2 [Homo sapiens]
Official Symbol	PON2
Synonyms	PON2; paraoxonase 2; serum paraoxonase/arylesterase 2; paraoxonase nirs;
Gene ID	5445
mRNA Refseq	NM_000305
Protein Refseq	NP_000296
MIM	602447
Uniprot ID	Q15165
Chromosome Location	7q21.3
Pathway	Metabolic pathways, organism-specific biosystem;

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Function

arylesterase activity; hydrolase activity; identical protein binding; metal ion binding;

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