

## Recombinant Human PON2, His-tagged

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

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length PON2 protein (Human) with an amino-terminal hexahistidine tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>        | <p>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.</p> |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Tissue specificity</b> | Widely expressed with highest expression in liver, lung, placenta, testis and heart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>             | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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

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**Function**

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

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