

## Active Recombinant Human PON1 protein, His-tagged

**Cat. No.** PON1-07H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Active Recombinant Human PON1 protein(P27169)(35~206 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 35-206 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bio-activity</b>     | <p>Paraoxonase 1 (PON1) is responsible for hydrolysing organophosphate pesticides and nerve gasses. PON1 (paraoxonase 1) is also a major anti-atherosclerotic component of high-density lipoprotein (HDL). Besides, Clusterin (CLU) has been identified as an interactor of PON1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PON1 and recombinant human CLU. Briefly, PON1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to CLU-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PON1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of of PON1</p> |

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and CLU was shown, and this effect was in a dose dependent manner.

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 20.6kDa                                                                                                    |
| <b>Purity</b>         | > 97% as determined by SDS-PAGE.                                                                           |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PON1 paraoxonase 1 [ Homo sapiens ]                                                                                                                                                                                                       |
| <b>Official Symbol</b> | PON1                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | 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 aryldiacylphosphatase; serum aryldialkylphosphatase 1; MVCD5; |
| <b>Gene ID</b>         | 5444                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_000446                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_000437                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | P27169                                                                                                                                                                                                                                    |

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