

Active Recombinant Human PON3 protein(Gly2~Leu354), His-tagged

Cat. No. PON3-594H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human PON3 protein(Gly2~Leu354), fused with N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly2~Leu354
Form	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Bio-activity	Paraoxonase 3 (PON3) is secreted into the bloodstream and associates with high-density lipoprotein (HDL). PON3 also rapidly hydrolyzes lactones and can inhibit the oxidation of low-density lipoprotein, a function that is believed to slow the initiation and progression of atherosclerosis. Besides, Paraoxonase 1 (PON1) has been identified as an interactor of PON3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PON3 and recombinant human PON1. Briefly, PON3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PON1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PON3 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,

 Tel: 1-631-559-9269 1-516-512-3133

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add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of of PON3 and PON1, and this effect was in a dose dependent manner.

Molecular Mass	43.2kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 98%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PON3 paraoxonase 3 [Homo sapiens]
Official Symbol	PON3
Synonyms	PON3; paraoxonase 3; serum paraoxonase/lactonase 3; paraoxanase-3;
Gene ID	5446
mRNA Refseq	NM_000940
Protein Refseq	NP_000931
MIM	602720
UniProt ID	Q15166

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