

Paraoxonase 3 (PON3) Active Protein | PON3 active protein

Active Paraoxonase 3 (PON3)

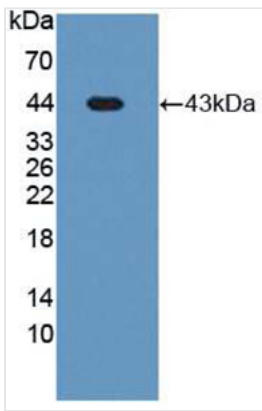
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA147870	E. coli	Homo sapiens (Human)	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Paraoxonase 3 (PON3); Active Paraoxonase 3 (PON3); PON3 active protein

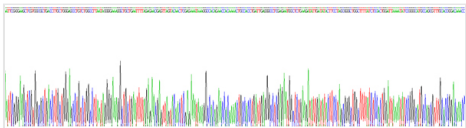
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>98%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose .
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for PON3 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Gly2~Leu354
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	5.2
Usage	Reconstitute in ddH2O to a concentration < = 0.1mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



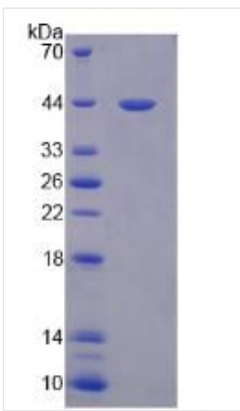
WB (Western Blot)

Western BlotSample: Recombinant PON3, Human;Antibody: Rabbit Anti-Human PON3 Ab



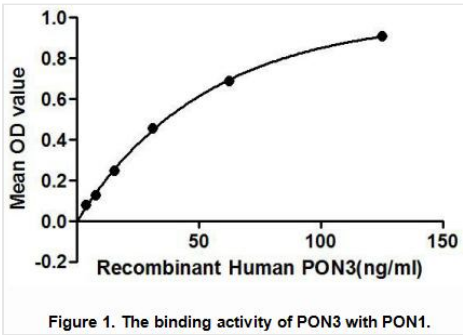
Gene Sequencing

Gene Sequencing (extract)



SDS_PAGE

SDS-PAGESample: Active recombinant PON3, Human



Bioactivity

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 degree 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 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of of PON3 and PON1 was shown in Figure 1, and this effect was in a dose dependent manner.

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GKLVALLVLL  GVGLSLVGEM  FLAFRERVNA  SREVEPVEPE  NCHLIEELES
GSEDIDILPS  GLAFISSGLK  YPGMPNFAPD  EPGKIFLMDL  NEQNPRQAAL
EISGGFDKEL  FNPHGISIFI  DKDNTVLYLV  VNHPHMKSTV  EIFKFEEQQR
SLVYLKTIKH  ELLKSVNDIV  VLGPEQFYAT  RDHYFTNSLL  SFFEMILDLR
WTYVLFYSPR  EVKVVAKGFC  SANGITVSAD  QKYVYVADVA  AKNIHIMEKH
DNMDLTQLKV  IQLGTLVDNL  TVDPATGDIL  AGCHPNPMKL  LNYNPEDPPG
SEVLRIQNVL  SEKPRVSTVY  ANNGSVLQGT  SVASVYHGKI  LIGTVFHKTL
YCEL

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Sequence

NCBI AND UNIPROT INFORMATION

Molecular Weight	Predicted Molecular Mass: 43.2kDa Accurate Molecular Mass: 43kDa as determined by SDS-PAGE reducing conditions.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/paraoxonase-3-pon3/147870>