

Serum paraoxonase/arylesterase 1 Recombinant Protein | PON1 recombinant protein

Recombinant Human Serum paraoxonase/arylesterase 1

CATALOG # AAA113842	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

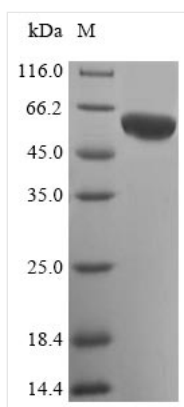
PRODUCT SYNONYMS

Serum paraoxonase/arylesterase 1; Recombinant Human Serum paraoxonase/arylesterase 1; Aromatic esterase 1; A-esterase 1K-45; Serum arylalkylphosphatase 1; PON1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-355aa; Full Length of Mature Protein
Sequence	AKLIALTLLG MGLALFRNHQ SSYQTRLNAL REVQPVELPN CNLVKGIETG SEDLEILPNG LAFISSGLKY PGIKSFNPNS PGKILLMDLN EEDPTVLELG ITGSKFDVSS FNPHGISTFT DEDNAMYLLV VNHPDAKSTV ELFKFQEEEEK SLLHLKTIRH KLLPNLNDIV AVGPHEFYGT NDHYFLDPYL QSWEMYLGLA WSYVVYYSPS EVRVVAEGFD FANGINISPD GKYVYIAELL AHKIHVYEKH ANWTLTPLKS LDFNTLVDNI SVDPETGDLW VGCHPNGMKI FFYDSENPPA SEVLRIQNIL TEEPKVTQVY AENGTVLQGS TVASVYKGKL LIGTVFHKAL YCEL
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PON1 recombinant protein	Hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. Capable of hydrolyzing a broad spectrum of organophosphate substrates and lactones, and a number of aromatic carboxylic acid esters. Mediates an enzymatic protection of low density lipoproteins against oxidative modification and the consequent series of events leading to atheroma formation.
Product Categories/Family for PON1 recombinant protein	Cardiovascular
References	Characterization of cDNA clones encoding rabbit and human serum paraoxonase the mature protein retains its signal sequence.Hassett C., Richter R.J., Humbert R., Chapline C., Crabb J.W., Omiecinski C.J., Furlong C.E.Biochemistry 30:10141-10149(1991) Molecular basis for the polymorphic forms of human serum paraoxonase/arylesterase glutamine or arginine at position 191, for the respective A or B allozymes.Adkins S., Gan K.N., Mody M., La Du B.N.Am. J. Hum. Genet. 52:598-608(1993) Studies on human serum paraoxonase/arylesterase.La Du B.N., Adkins S., Kuo C.L., Lipsig D.Chem. Biol. Interact. 87:25-34(1993) Human and rabbit paraoxonases purification, cloning, sequencing, mapping and role of polymorphism in organophosphate detoxification.Furlong C.E., Costa L.G., Hassett C., Richter R.J., Sundstrom J.A., Adler D.A., Distechte C.M., Omiecinski C.J., Chapline C., Crabb J.W.Chem. Biol. Interact. 87:35-48(1993) Structural organization of the human PON1 gene.Clendenning J.B., Humbert R., Green E.D., Wood C., Traver D., Furlong C.E.Genomics 35:586-589(1996) Differential expression of a cDNA clone in human liver versus hepatic cancer -- highly homologous to aryl-dialkyl-phosphatase.Wang K.K., Wan D.F., Qiu X.K., Lu P.X., Gu J.R.Cell Res. 7:79-90(1997) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) SeattleSNPs variation discovery resourceThe DNA sequence of human chromosome 7.Hillier L.W., Fulton R.S., Fulton L.A., Graves T.A., Pepin K.H., Wagner-McPherson C., Layman D., Maas J., Jaeger S., Walker R., Wylie K., Sekhon M., Becker M.C., O'Laughlin M.D., Schaller M.E., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Cordes M., Du H., Sun H., Edwards J., Bradshaw-Cordum H., Ali J., Andrews S., Isak A., Vanbrunt A., Nguyen C., Du F., Lamar B., Courtney L., Kalicki J., Ozersky P., Bielicki L., Scott K., Holmes A., Harkins R., Harris A., Strong C.M., Hou S., Tomlinson C., Dauphin-Kohlberg S., Kozlowicz-Reilly A., Leonard S., Rohlfing T., Rock S.M., Tin-Wollam A.-M., Abbott A., Minx P., Maupin R., Strowmatt C., Latreille P., Miller N., Johnson D., Murray J., Woessner J.P., Wendl M.C., Yang S.-P., Schultz B.R., Wallis J.W., Spieth J., Bieri T.A., Nelson J.O., Berkowicz N., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Bedell J.A., Mardis E.R., Clifton S.W., Chissoe S.L., Marra M.A., Raymond C., Haugen E., Gillett W., Zhou Y., James R., Phelps K., Iadanoto S., Bubbs K., Simms E., Levy R., Clendenning J., Kaul R., Kent W.J., Furey T.S., Baertsch R.A., Brent M.R., Keibler E., Flicek P., Bork P., Suyama M., Bailey J.A., Portnoy M.E., Torrents D., Chinwalla A.T., Gish W.R., Eddy S.R., McPherson J.D., Olson M.V., Eichler E.E., Green E.D., Waterston R.H., Wilson R.K.Nature 424:157-164(2003) Human chromosome 7 DNA sequence and biology.Scherer S.W., Cheung J., MacDonald J.R., Osborne L.R., Nakabayashi K., Herbrick J.-A., Carson A.R., Parker-Katirae L., Skaug J., Khaja R., Zhang J., Hudek A.K., Li M., Haddad M., Duggan G.E., Fernandez B.A., Kanematsu E., Gentles S., Christopoulos C.C., Choufani S., Kwasnicka D., Zheng X.H., Lai Z., Nusskern D.R., Zhang Q., Gu Z., Lu F., Zeesman S., Nowaczyk M.J., Teshima I., Chitayat D., Shuman C., Weksberg R., Zackai E.H., Grebe T.A., Cox S.R., Kirkpatrick S.J., Rahman N., Friedman J.M., Heng H.H.Q., Pelicci P.G., Lo-Coco F., Belloni E., Shaffer L.G., Pober B., Morton C.C., Gusella J.F., Bruns G.A.P., Korf B.R., Quade B.J., Ligon A.H., Ferguson H., Higgins A.W., Leach N.T., Herrick S.R., Lemyre E., Farra C.G., Kim H.-G., Summers A.M., Gripp K.W., Roberts W., Szatmari P., Winsor E.J.T., Grzeschik K.-H., Teebi A., Minassian B.A., Kere J., Armengol L., Pujana M.A., Estivill X., Wilson M.D., Koop B.F., Tosi S., Moore G.E., Boright A.P., Zlotorynski E., Kerem B., Kroisel P.M., Petek E., Oscier D.G., Mould S.J., Doehner H., Doehner K., Rommens J.M., Vincent J.B., Venter J.C., Li P.W., Mural R.J., Adams M.D., Tsui L.-C.Science 300:767-772(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923106
NCBI GeneID	5444
NCBI Accession #	NP_000437.3
NCBI GenBank Nucleotide #	NM_000446.5
UniProt Accession #	P27169; Q16052; Q6B0J6; Q9UCB1; B2RA40
Molecular Weight	66.6 kDa
NCBI Official Full Name	serum paraoxonase/arylesterase 1
NCBI Official Synonym Full Names	paraoxonase 1
NCBI Official Symbol	PON1
NCBI Official Synonym Symbols	ESA; PON; MVCD5
NCBI Protein Information	serum paraoxonase/arylesterase 1
UniProt Protein Name	Serum paraoxonase/arylesterase 1
UniProt Gene Name	PON1
UniProt Synonym Gene Names	PON; A-esterase 1
UniProt Entry Name	PON1_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/pon1-recombinant-protein-e-coli/113842>