

## Paraoxonase 1 Human E. coli

### Product Data Sheet

**Type:** Recombinant

**Source:** E. coli

**Species:** Human

**Other names:** Arylesterase 1, PON 1, Aromatic Esterase 1, A-Esterase 1, K-45, Serum Aryldialkylphosphatase 1

**Cat. No.:**

RD172279100

(0.1 mg)

### Description

Total 362 AA. MW: 40.68 kDa (calculated). UniProtKB acc.no. P27169 (Met1-Leu355). C-terminal His-tag (7 extra AA). Protein identity confirmed by LC-MS/MS.

### Introduction to the Molecule

PON 1 Hydrolyzes organophosphate substrates and lactones, and a number of aromatic carboxylic acid esters. It is found in plasma associated with HDL. It mediates an enzymatic protection of lipoproteins against oxidative modification and thus against atheroma formation. Genetic variation in PON1 is associated with susceptibility to microvascular complications in diabetic patients.

### Research topic

Cardiovascular disease, Energy metabolism and body weight regulation, Lipoprotein metabolism, Others

### Amino Acid Sequence

MAKLIALTLL GMGLALFRNH QSSYQTRLNA LREVQPVELP NCNLVKGIET GSEDELEILPN GLAFISSGLK YPGIKSFNPN  
SPGKILLMDL NEEDPTVLEL GITGSKFDVS SFNPHGISTF TDEDNAMYLL VVNHPDAKST VELFKFQEEE KSLHLKTIR  
HKLLPNLNDI VAVGPEHFYQ TNDHYFLDPY LQSWEMYLGL AWSYVVYVSP SEVRVVAEGF DFANGINISP DGKYVYIAEL  
LAHKIHVYEK HANWTLTPLK SLDFNTLVND ISVDPETGDL WVGCHPNGMK IFFYDSENPP ASEVLRIQNI LTEEPKVTQV  
YAENGTVLQG STVASVYKKG LLIGTVFHKA LYCEL EHHHH HH

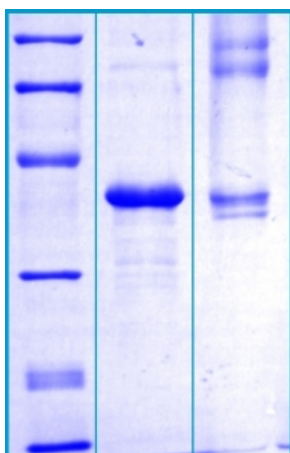
### Source

E. coli

### Purity

Purity as determined by densitometric image analysis: >90%

### SDS-PAGE gel



12% SDS-PAGE separation of Human PON-1  
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa  
2. reduced and boiled sample, 2.5µg/lane  
3. non-reduced and non-boiled sample, 2.5µg/lane

### Endotoxin

< 1.0 EU/ug

## Formulation

Filtered (0.4 µm) and lyophilized from 0.5 mg/mL in 20mM Tris buffer, 50 mM NaCl, pH 7.5

## Reconstitution

Add 200µl of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

## Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

## Storage, Stability/Shelf Life

Store the lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

## Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL TEST to determine endotoxin level.

## Applications

ELISA, Western blotting

## Note

This product is intended for research use only.

<b>HEADQUARTERS:</b> BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: info@biovendor.com sales@biovendor.com Web: www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail: infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail: infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail: infoUSA@biovendor.com