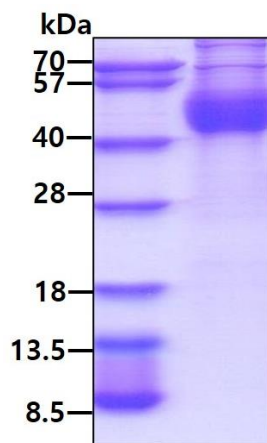


Human CellExp™ PON1, Human Recombinant

CATALOG NO:	P1556-10 10 µg P1556-50 50 µg
ALTERNATE NAMES:	Aromatic esterase 1, A-esterase 1, K-45, Serum arylalkylphosphatase 1, paraoxonase 1, ESA, MVCD5, PON
MOL. WT.	39.0 kDa (His-tag at C-terminus)
SOURCE:	HEK 293 cells
PURITY:	>90% SDS - PAGE
ENDOTOXIN:	< 1 EU per 1ug of protein (determined by LAL method)
FORM:	Liquid
FORMULATION:	In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol
SPECIFIC ACTIVITY:	Specific activity is > 2,500 pmol/min/ug
CONCENTRATION:	0.25 mg/ml (determined by Absorbance at 280nm)
UNIT DEFINITION:	One unit is defined as the amount of enzyme that hydrolyzes 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH7.5 at 37C.
STORAGE CONDITIONS:	Store at 4°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.
DESCRIPTION:	PON1, also known as A esterase1, is a member of the paraoxonase family. It is an enzyme that hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. It is also a major anti-atherosclerotic component of high-density lipoprotein (HDL). This protein is activated by PPAR-gamma, which increases synthesis and release of paraoxonase 1 enzyme from the liver, reducing atherosclerosis. PON1 shows a variety of atheroprotective properties by metabolizing inflammatory lipid peroxides. It has evolved to be a highly promiscuous enzyme capable of hydrolysing a wide variety of substrates such as lactones, cyclic carbonates, organophosphorus pesticides and nerve gases. Recombinant human PON1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
AMINO ACID SEQUENCE:	346 aa (16-355 aa)



3µg by SDS-PAGE under reducing condition and stained by coomassie blue stain

RELATED PRODUCTS:

- FTO, human recombinant (7557)
- Carbonic anhydrase-1, human recombinant (P1048)

- FTO, mouse recombinant (7558)
- Carbonic anhydrase-8, human recombinant (P1047)
- Carbonic Anhydrase 3, human recombinant (7833)

FOR RESEARCH USE ONLY! Not to be used on humans.