Datasheet for ABIN7596263

PON1 Protein (AA 16-355) (His tag)

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Overview

Quantity:	250 µg
Target:	PON1
Protein Characteristics:	AA 16-355
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PON1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	LFRNHQSSYQ TRLNALREVQ PVELPNCNLV KGIETGSEDL EILPNGLAFI SSGLKYPGIK SFNPNSPGKI LLMDLNEEDP TVLELGITGS KFDVSSFNPH GISTFTDEDN AMYLLVVNHP DAKSTVELFK FQEEEKSLLH LKTIRHKLLP NLNDIVAVGP EHFYGTNDHY FLDPYLQSWE MYLGLAWSYV VYYSPSEVRV VAEGFDFANG INISPDGKYV YIAELLAHKI HVYEKHANWT LTPLKSLDFN TLVDNISVDP ETGDLWVGCH PNGMKIFFYD SENPPASEVL RIQNILTEEP KVTQVYAENG TVLQGSTVAS VYKGKLLIGT VFHKALYCEL
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 2,500 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH7.5 at 37C.

Target Details

Target:	PON1
Alternative Name:	PON1 (PON1 Products)
Background:	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.
Molecular Weight:	39.0kDa (346aa)
NCBI Accession:	NP_000437

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.