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# Human PARP1 Recombinant Protein

PX-P1137-10

## DESCRIPTION

Poly (ADP-ribose) Polymerase 1 (PARP1) also known as NAD(+) ADP-ribosyltransferase 1(ADPRT), is a nuclear enzyme that synthesizes ADP-ribose polymers from NAD+, specifically binds Zn2+ and DNA, and recognizes single-strand breaks in DNA. PARP1 is demonstrated to mediate the poly(ADP-ribose) ation of APLF (aprataxin PNK-like factor) and CHFR (checkpoint protein with FHA and RING domains), two representative proteins involved in the DNA damage response and checkpoint regulation. PARP1 has been used in a research study to assess racial and tissue-specific cancer risk associated with polymorphism in the PARP1 gene. It has also been used to investigate inhibitors of PARP-1 for potential cancer treatments.

### **OVERVIEW**

SIZE	10 ug
ORIGIN SPECIES	Human
FRAGMENT	Partial ( $\Delta$ Nter)
PROTEIN DELIVERED WITH TAG	Yes
MOLECULAR WEIGHT WITH TAG IF ANY	90,90 kDa
DELIVERY CONDITION	Dry Ice

## **PRODUCT INFORMATION**

EXPRESSION SYSTEM	Prokaryotic expression
HOST	E.coli
PURITY	0,6
PROTEIN ACCESSION	AAB59447.1
FORM	liquid
BUFFER	PBS, imidazole 300mM
STABILITY & STORAGE	$4^{\circ}C$ for short term (1 week), -20°C or -80°C for long term (avoid freezing/thawing cycles;
	addition of 20-40% glycerol improves cryoprotection)



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# **MORE INFO**

GENE ID	142
SWISSPROTID	P09874
UNIPROT ID	P09874
UNIPROT LINK	http://www.uniprot.org/uniprot/P09874
NCBI GENE ALIASES	PPOL, ADPRT, ARTD1, PARP-1, ADPRT 1, PARP, ADPRT1, pADPRT-1
SYNONYMS	PARP1, poly(ADP-ribose) synthetase, PARP-1, ADP-ribosyltransferase diphtheria toxin-like 1, ARTD1, NAD(+) ADP-ribosyltransferase 1, ADPRT 1, Poly[ADP-ribose] synthase 1, ADPRT, PPOI

## **PROTEIN SEQUENCE**

MAHNHRHKHKLDDDDKGVDEVAKKKSKKEKDKDSKLEKALKAQNDLIWNIKDELKKVCSTNDLKELLIFNKQQVPSGESA ILDRVADGMVFGALLPCEECSGQLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKKLKVKKQDRIFP PETSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGGKLTGTANKASLCISTKKEVEK MNKKMEEVKEAN

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