Human PARP1 Recombinant Protein

## 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 $\mathrm{Zn} 2+$ and DNA, and recognizes singlestrand 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 ( $\Delta \mathrm{Nter})$ |
| PROTEIN DELIVERED WITH TAG | Yes |
| MOLECULAR WEIGHT WITH TAG IF ANY | $90,90 \mathrm{kDa}$ |
| 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 300 mM |
| STABILITY \& STORAGE | $4^{\circ} \mathrm{C}$ for short term $(1$ week $),-20^{\circ} \mathrm{C}$ or $-80^{\circ} \mathrm{C}$ for long term (avoid freezing/thawing cycles; |
|  | addition of $20-40 \%$ glycerol improves cryoprotection $)$ |

## MORE INFO

GENE ID
SWISSPROTID

UNIPROT ID
UNIPROT LINK
NCBI GENE ALIASES
SYNONYMS

142
P09874
P09874
http://www.uniprot.org/uniprot/P09874
PPOL, ADPRT, ARTD1, PARP-1, ADPRT 1, PARP, ADPRT1, pADPRT-1
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, PPOL

## PROTEIN SEQUENCE

[^0]For research use only.


[^0]:    MAHNHRHKHKLDDDDKGVDEVAKKKSKKEKDKDSKLEKALKAQNDLIWNIKDELKKVCSTNDLKELLIFNKQQVPSGESA ILDRVADGMVFGALLPCEECSGQLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKKLKVKKQDRIFP PETSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGGKLTGTANKASLCISTKKEVEK MNKKMEEVKEAN

