

## Active Recombinant Human PARP-1

Cat. No. PARP1-58H    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant protein produced in insect cells (Sf9).
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Form</b>	20 µg at 1 mg/mL affinity-purified liquid human recombinant PARP-1 in 100 mM Tris-HCl (pH 7.5) containing 14 mM β-mercaptoethanol, 0.5 mM EDTA, 0.5 mM PMSF and 10% glycerol.
<b>Bio-activity</b>	~1,018 U/mg protein.
<b>Purity</b>	>99% as determined by SDS-PAGE.
<b>Unit Definition</b>	One unit synthesizes 1 nmole of poly(ADP-ribose) per min. at 25°C, pH 7.5.
<b>Usage</b>	For in vitro research use only. Not for use in diagnostics or in humans.
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freeze/thaw cycles.
<b>Warning</b>	No warranties, expressed or implied, are made regarding the use of this product. Creative Biomart is not liable for any damage, personal injury, or economic loss caused by this product.

### GENE INFORMATION

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<b>Gene Name</b>	PARP1 poly (ADP-ribose) polymerase 1 [ Homo sapiens ]
<b>Official Symbol</b>	PARP1
<b>Synonyms</b>	PARP1; poly (ADP-ribose) polymerase 1; ADP ribosyltransferase (NAD+; poly (ADP ribose) polymerase) , ADPRT, poly (ADP ribose) polymerase family, member 1 , PPOL; poly [ADP-ribose] polymerase 1; PARP; poly(ADP-ribose) polymerase; poly(ADP-ribose) synthetase; poly[ADP-ribose] synthase 1; poly(ADP-ribosyl)transferase; ADP-ribosyltransferase NAD(+); NAD(+) ADP-ribosyltransferase 1; poly (ADP-ribose) polymerase family, member 1; ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase); PPOL; ADPRT; ADPRT1; PARP-1; ADPRT 1; pADPRT-1;
<b>Gene ID</b>	142
<b>mRNA Refseq</b>	NM_001618
<b>Protein Refseq</b>	NP_001609
<b>MIM</b>	173870
<b>UniProt ID</b>	P09874
<b>Chromosome Location</b>	1q41-q42
<b>Pathway</b>	BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Caspase cascade in apoptosis, organism-specific biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem;

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**Function**

DNA binding; NAD binding; NAD+ ADP-ribosyltransferase activity; metal ion binding; protein N-terminus binding; protein binding; transcription factor binding; transferase activity, transferring glycosyl groups; zinc ion binding;

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