

Active Recombinant Human PARP-1

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

SPECIFICATION

Product Overview	Recombinant protein produced in insect cells (Sf9).
Species	Human
Source	Sf9 Cells
Form	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.
Bio-activity	~1,018 U/mg protein.
Purity	>99% as determined by SDS-PAGE.
Unit Definition	One unit synthesizes 1 nmole of poly(ADP-ribose) per min. at 25°C, pH 7.5.
Usage	For in vitro research use only. Not for use in diagnostics or in humans.
Storage	Store at -80°C. Aliquot to avoid repeated freeze/thaw cycles.
Warning	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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 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	PARP1 poly (ADP-ribose) polymerase 1 [Homo sapiens]
Official Symbol	PARP1
Synonyms	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;
Gene ID	142
mRNA Refseq	NM_001618
Protein Refseq	NP_001609
MIM	173870
UniProt ID	P09874
Chromosome Location	1q41-q42
Pathway	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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