

## Recombinant Human PARP1 Protein, His-tagged

Cat. No. PARP1-640H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PARP-1 (aa 656-1014) protein fused to a C-terminal His-tag was produced in a baculovirus expression system (SF21 insect cells).
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	656-1014 a.a.
<b>Description</b>	This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes.
<b>Form</b>	Liquid
<b>Molecular Mass</b>	~46kDa
<b>Purity</b>	≥90% (SDS-PAGE)
<b>Storage</b>	At -80 centigrade.

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<b>Storage Buffer</b>	50mM TRIS-HCl, pH 7.5, containing 300mM sodium chloride, 250mM imidazole, 2mM β-mercaptoethanol, 0.2% NP-40 and 10% glycerol.
<b>Handling</b>	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80 centigrade.
<b>Shipping</b>	Dry Ice
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PARP1 poly(ADP-ribose) polymerase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PARP1 poly(ADP-ribose) polymerase 1 [ Homo sapiens (human) ]
<b>Synonyms</b>	PARP1; poly(ADP-ribose) polymerase 1; PARP; PARS; PPOL; ADPRT; ARTD1; ADPRT1; PARP-1; ADPRT 1; pADPRT-1; Poly-PARP; poly [ADP-ribose] polymerase 1; ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase); ADP-ribosyltransferase NAD(+); ADP-ribosyltransferase diphtheria toxin-like 1; DNA ADP-ribosyltransferase PARP1; NAD(+) ADP-ribosyltransferase 1; poly (ADP-ribose) polymerase family, member 1; poly(ADP-ribose) synthetase; poly(ADP-ribosyl)transferase; poly[ADP-ribose] synthase 1; protein poly-ADP-ribosyltransferase PARP1; EC 2.4.2.30
<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

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