Recombinant Human PARP1 Protein, His-tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	Insect Cells
ProteinLength	656-1014 a.a.
Description	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.
Form	Liquid
Molecular Mass	~46kDa
Purity	≥90% (SDS-PAGE)
Storage	At -80 centigrade.

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Storage Buffer	50mM TRIS-HCl, pH 7.5, containing 300mM sodium chloride, 250mM imidazole, 2mM β-mercaptoethanol, 0.2% NP-40 and 10% glycerol.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80 centigrade.
Shipping	Dry Ice

GENE INFORMATION

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

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