

Recombinant Human PARP1 Protein

Cat. No. PARP1-59H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PARP1 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
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.
Unit Definition	One unit of PARP incorporates 10 femtomoles of NAD onto immobilized histones in 30 minutes. High specific activity PARP is provided at 10 units/μL.
Applications	Identification of inhibitors of PARP1 activity Quantitation of DNA Damage Investigation of PARP1 inactivation during apoptosis Western Blot Analysis
Stability	The enzyme retains over 66 % of its activity after 24 hr at 37 centigrade.
Storage	Store at -20 centigrade in a manual defrost freezer. For long-term storage, freeze in

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working aliquots at -80 centigrade. Avoid freeze-thaw cycles.

Concentration 10 units/μL

Storage Buffer 20 mM Tris-Cl (pH 8.0), 200 mM NaCl, 1 mM DTT, 0.1% Triton X-100, 50% glycerol, and 0.1 mg/ml BSA.

GENE INFORMATION

Gene Name PARP1 poly(ADP-ribose) polymerase 1 [Homo sapiens (human)]

Official Symbol PARP1

Synonyms PARP1; poly(ADP-ribose) polymerase 1; PARP; PPOL; ADPRT; ARTD1; ADPRT1; PARP-1; ADPRT 1; pADPRT-1; 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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