

Active Recombinant Human PARP1 Protein, GST-tagged

Cat. No. PARP1-010H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active recombinant human N-terminal GST-tagged full length PARP1 protein (2-1041) was expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	2-1041
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.
Bio-activity	Ribosylation activity measured by chemiluminescent assay.
Molecular Mass	139 kDa
Purity	≥80% as determined by SDS-PAGE
Stability	≥ 2 years

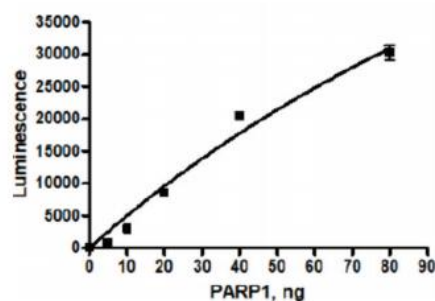
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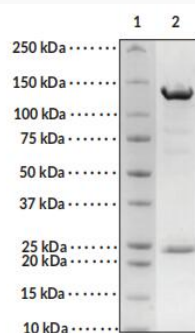
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Storage	At -80 centigrade.
Storage Buffer	40 mM Tris, pH 8.0, with 110 mM NaCl, 2.2 mM KCl, 2 mM glutathione, 3 mM DTT and 20% glycerol
GENE INFORMATION	
Gene Name	PARP1 poly(ADP-ribose) polymerase 1 [Homo sapiens (human)]
Official Symbol	PARP1
Synonyms	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

Specific Activity



SDS-PAGE analysis of PARP1



Lane 1: MW Markers

Lane 2: PARP1 (2 µg)