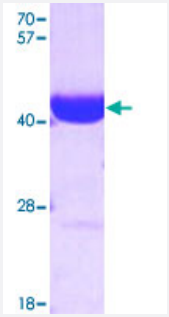
# PARP1 (Human) Recombinant Protein

Catalog # P3547 Size 100 ug

## Applications




## Specification

| | |
|---|---|
| **Product Description** | Human PARP1 (AAH37545, 662 a.a. - 1014 a.a.) partial recombinant protein expressed in *Escherichia coli*. |
| **Sequence** | MKSKLPKPVQDLIKMIFDVESMKKAMVEYEIDLQKMPLGKLSKRQIQAAYSILSEVQQAVSQGSSD SQILDLSNRFYTLIPHDFGMKKPPLLNNADSVQAKAEMLDNLLDIEVAYSLLRGGSDDSSKDPIDV NYEKLKTDIKVVDRDSEEAEIIRKYVKNTHATTHNAYDLEVIDIFKIEREGECQRYKPFKQLHNRRLL WHGSRTTNFAGILSQGLRIAPPEAPVTGYMFGKGIYFADMVSKSANYCHTSQGDPIGLILLGEVALG NMYELKHASHISKLPKGKHSVKGLGKTTPDPSANISLDGVDVPLGTGISSGVNDTSLLYNEYIVYDIA QVNLKYLLKLKFNFKTSLW |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 39.6 |
| **Form** | Liquid |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purification** | Conventional Chromatography |
| **Concentration** | 1 mg/mL |
| **Purity** | > 95% by SDS-PAGE |
| **Quality Control Testing** | Loading 3 ug protein in 15% SDS-PAGE |

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|---|---|
| **Storage Buffer** | In 20 mM Tris buffer, pH 8.0 (1 mM DTT, 10% glycerol). |
| **Storage Instruction** | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing. |

## Applications

- SDS-PAGE

## Gene Info — PARP1

| | |
|---|---|
| **Entrez GeneID** | 142 |
| **Protein Accession#** | AAH37545 |
| **Gene Name** | PARP1 |
| **Gene Alias** | ADPRT, ADPRT1, PARP, PARP-1, PPOL, pADPRT-1 |
| **Gene Description** | poly (ADP-ribose) polymerase 1 |
| **Omim ID** | 173870 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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. [provided by RefSeq |
| **Other Designations** | ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)\|ADP-ribosyltransferase NAD(+)\|OTTHUMP00000035663\|poly (ADP-ribose) polymerase family, member 1\|poly(ADP-ribose) polymerase\|poly(ADP-ribose) synthetase\|poly(ADP-ribosyl)transferase |

## Pathway

- Base excision repair

## Disease

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- Acute Disease
- Adenocarcinoma
- Adenomyoma
- Alzheimer disease
- Arthritis
- Asthma
- Ataxia telangiectasia
- Brain Injuries
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Chronic Disease
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Neuropathies
- Disease Progression
- DNA Damage
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Glioma
- Glomerulonephritis

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- Graft vs Host Disease
- Helicobacter Infections
- Kidney Failure
- Leukemia
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphatic Metastasis
- Lymphoma
- Macular Degeneration
- Malignant melanoma
- Melanoma
- Meniere Disease
- Meningeal Neoplasms
- Meningioma
- Meningococcal Infections
- Micronuclei
- Multiple Sclerosis
- Neoplasms
- Neuroma
- Neutropenia
- Otitis Media
- Ovarian cancer
- Ovarian Neoplasms
- Papillomavirus Infections
- Parkinson disease

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- Precancerous Conditions
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Rectal Neoplasms
- Recurrence
- Renal Insufficiency
- Skin Neoplasms
- Stomach Neoplasms
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Werner syndrome

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