

## PARP1 Protein, Human, Recombinant (HEK293, His)

## General Information

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

Protein Construction: 1-1014 aa

Species: Human

Expression Host: HEK293 Cells

Accession: P09874

Molecular Weight: 116.9 kDa (Predicted)

AA Sequence:

MAESSDKLYRVEYAKSGRASCKKCSSESIPKDSLRLMAIMVQSPMFDGKVPWHYHFSCFWKVGHSIRHPDVEV  
DGFSELRWDDQQKVKKTAEAGGVTGKGQDGIGSKAEKTLGDFAAEYAKSNRSTCKGCMKIEKGQVRLSKK  
MVDPEKPQLGMIDRWYHPGCFVKNREELGFRPEYSASQLKGFSLLATEDKEALKKQLPGVKSEGKRKRGDEVD  
GVDEVAKKKSKKEKDKDSKLEKALKAQNDLIWNIKDELKKVCSTNDLKELLIFNKQQVPSGESAILDRVADGM  
VFGALLPCEECGQLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKLLKLVKKQDRIFPPE  
TSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGKLTGTANKASLCISTKK  
EVEKMNKKMEEVKEANIRVVSDFLQDVSASTKSLQELFLAHILSPWGAEVKAEPVEVVAPRGKSGAALSCKK  
KGQVKEEGINKSEKRMKLTLLKGGAAVDPDPSGLEHSAHVLEKGGKVFSA TLGLVDIVKGTNSYYKLQLLEDDKE  
NRYWIFRSWGRVGTVIGSNKLEQMPKEDAIEHFMKLYEKTGNAWHSKNFTKYPKFFYPLEIDYGQDEEAV  
KKLTVNPGTKSKLPKPVQDLIKMIFDVESMCKAMVEYEIDLQKMPGLKLSKRQIQAAAYSILSEVQQAQVSGSS  
DSQILDLSNRFYTLIPHDFGMKKPPLLNNADSVQAKVEMLDNLLDIEVAYSLLRGGSDSSKDPIDVNYEKLK  
TDIKVVDRDSEAEIIRKYVKNTHATTHNAYDLEVIDIFKIEREGECQRYKPFKQLHNRLLWHGSRTTNFAGIL  
SQGLRIAPPEAPVTGYMFGKGIYFADMVSKSANYCHTSQGDPIGLILLGEVALGNMYELKHASHISKLPKGKH  
SVKGLGKTPDPSANISLDGVDVPLGTGISSGVNDTSLLYNEYIVYDIAQVNLKYLKLLKLFNFKTSLW

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.

Purity: > 95% as determined by SDS-PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

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Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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### Protein Background

Poly-ADP-ribosyltransferase that mediates poly-ADP-ribosylation of proteins and plays a key role in DNA repair. Mediates glutamate, aspartate, serine or tyrosine ADP-ribosylation of proteins: the ADP-D-ribosyl group of NAD(+) is transferred to the acceptor carboxyl group of target residues and further ADP-ribosyl groups are transferred to the 2'-position of the terminal adenosine moiety, building up a polymer with an average chain length of 20-30 units.

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