

PARP-1, human recombinant protein**Human PARP, PARP, h-PARP, rh-PARP, recombinant human PARP, PARPrecombinant PARP, PARP****Catalog # PBV10526r****Specification**

PARP-1, human recombinant protein - Product info

Primary Accession

[P09874](#)

Calculated MW

116.0 kDa KDa**PARP-1, human recombinant protein - Additional Info**

Gene ID

142

Gene Symbol

PARP-1**Other Names**

Human PARP, PARP, h-PARP, rh-PARP, recombinant human PARP, PARPrecombinant PARP, PARP

Gene Source

Human

Source

Baculovirus

Assay&Purity

SDS-PAGE; ≥95%

Assay2&Purity2

HPLC;

Recombinant

Yes**Application Notes**

Spin tube in a microfuge for 15 sec to sediment lyophilized material. Carefully open the vial and add 100 µL dH₂O. Vortex gently for 20 sec (avoid air bubbles). Let stand for 5 min. Carefully triturate the sample 10-times using a pipetman (avoid air bubbles). Spin briefly in microfuge to consolidate. Upon reconstitution with 100 µL dH₂O, the final concentrations are as follows: 0.5 mg/mL PARP1 enzyme, 20 mM Tris, pH 8, 0.3 M NaCl, 0.1 mM EDTA, 1 mM DTT, plus lyophilization stabilizers.

Format

Lyophilized protein

Storage

-70°C; Lyophilized solid

PARP-1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PARP-1, human recombinant protein - Images**PARP-1, human recombinant protein - Background**

Poly-ADP-ribose metabolism plays a major role in a wide range of biological processes, such as maintenance of genomic stability, transcriptional regulation, energy metabolism and apoptosis. PARP1 Enzyme, is highly purified and enzymatically active human PARP1, expressed in a baculovirus expression system. Upon addition of NAD⁺ and cofactors the PARP1 is automodified by the addition of ADP-ribose monomers to form poly(ADP-ribose) polymer. The PARP1 is supplied lyophilized, and upon reconstitution with water, it retains its native poly ADP-ribosylation enzymatic activity. It is useful for high-throughput enzymatic assays, visualization of the automodification reaction by SDS-PAGE and Western blotting, ELISA, standard for SDS-PAGE, and in other assays.

PARP-1, human recombinant protein - References

Uchida K.,et al.Biochem. Biophys. Res. Commun. 148:617-622(1987).
Kurosaki T.,et al.J. Biol. Chem. 262:15990-15997(1987).
Cherney B.W.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:8370-8374(1987).
Auer B.,et al.DNA 8:575-580(1989).
Gregory S.G.,et al.Nature 441:315-321(2006).