

## POLYADPRIBOSYLATION%0A

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[ADP-ribosylation - Wikipedia](#)

ADP-ribosylation is the addition of one or more ADP-ribose moieties to a protein. It is a reversible post-translational modification that is involved in many cellular processes, including cell signaling, DNA repair, gene regulation and apoptosis.

[ADP-ribosylation - an overview | ScienceDirect Topics](#)  
ADP-ribosylation. Poly(ADP-ribosylation is the process by which polymers of ADP-ribose (PAR) are attached via an ester bond to glutamic acid, aspartic acid, or lysine residues, mediated by PARP1 and PARP2 (Woodhouse & Dianov, 2008).

[ADP-Ribosyltransferases and Poly ADP-Ribosylation Protein](#)  
ADP-ribosylation is an important posttranslational modification that plays versatile roles in multiple biological processes. ADP-ribosylation is catalyzed by a group of enzymes known as ADP-ribosyltransferases (ARTs).

[Poly\(ADP-ribosylation in plants - ScienceDirect](#)  
Poly(ADP-ribose) polymerases (PARPs) and poly(ADP-ribose) glycohydrolases (PARGs) are the main enzymes responsible for the post-translational modification known as poly(ADP-ribosylation).

[ADP-ribosylation | definition of ADP-ribosylation by ...](#)  
Related to ADP-ribosylation: ADP-ribosylation factor 1, ADP-ribosylation factor 3 ADP ribosyl a tion covalent attachment of an ADP-ribosyl moiety to a macromolecule, for example, the action of diphtheria toxin.

[Poly \(ADP-ribosyl\) ation Liu Lab - University of Texas ...](#)

Poly(ADP-ribose) polymerase-1 (PARP-1) is an ubiquitous human enzyme that catalyzes the synthesis of the branched polymer poly(ADP-ribose) using NAD<sup>+</sup> as the building block. This posttranslational modification typically occurs on the glutamate residues of the target proteins. Many protein substrates

[ADP-ribosylation - definition of ADP-ribosylation by The ...](#)

ADP-ribosylation synonyms, ADP-ribosylation pronunciation, ADP-ribosylation translation, English dictionary definition of ADP-ribosylation. n. A nucleotide, C<sub>10</sub>H<sub>15</sub>N<sub>5</sub>O<sub>10</sub>P<sub>2</sub>, that is composed of adenosine and two linked phosphate groups, and that is converted to ATP for the storage of energy in

[Poly\(ADP-ribosylation\) reactions in the regulation of ...](#)  
Abstract. Poly(ADP-ribosylation) is a post-translational modification of proteins. During this process, molecules of ADP-ribose are added successively on to acceptor proteins

to form branched polymers.

role of poly ADP-ribosylation in the first wave of DNA

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Poly ADP-ribose polymerases (PARPs) catalyze massive protein poly ADP-ribosylation (PARylation) within seconds after the induction of DNA single- or double-strand breaks. PARylation occurs at or near the sites of DNA damage and promotes the recruitment of DNA repair factors via their poly ADP-ribose

Poly(ADP-ribosylation) reactions in the regulation of ...

Poly(ADP-ribosylation) is a post-translational modification of proteins. During this process, molecules of ADP-ribose are added successively on to acceptor proteins to form branched polymers. This modification is transient but very extensive in vivo, as polymer chains can reach more than 200 units on protein acceptors. The existence of the poly(ADP-ribose) polymer was first reported nearly 40