

# O-Acetyl-ADP-Ribose

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## Recent Publications on O-Acetyl-ADP-Ribose:

- [Mechanism-based inhibition of Sir2 deacetylases by thioacetyl-lysine peptide.](#)  
*Sir2 protein deacetylases (or sirtuins) catalyze NAD<sup>+</sup>-dependent conversion...*31st May, 2008  
Department of Chemistry, University of Wisconsin, Madison, Wisconsin- Biochemistry. 2007 Dec 18;46(50):14478-86. Epub 2007 Nov 21. ([DOI Direct Link](#))
- [Inhibitors of NAD<sup>+</sup> dependent histone deacetylases \(sirtuins\).](#)  
*Histone deacetylases (HDACs) are enzymes that deacetylate acetyl lysines...*6th May, 2008  
Institute of Pharmaceutical Sciences, University of Freiburg, Freiburg,- Curr Pharm Des. 2008;14(6):562-73.
- [Acetylation-dependent ADP-ribosylation by Trypanosoma brucei Sir2.](#)  
*Sirtuins are a highly conserved family of proteins implicated in diverse...*16th April, 2008  
Department of Biomolecular Chemistry, University of Wisconsin, School of- J Biol Chem. 2008 Feb 29;283(9):5317-26. Epub 2007 Dec 27. ([DOI Direct Link](#))
- [Acetyl-lysine analog peptides as mechanistic probes of protein deacetylases.](#)  
*Class III histone deacetylases (Sir2 or sirtuins) catalyze the...*21st February, 2008  
Department of Chemistry, University of Wisconsin-Madison, Madison,- J Biol Chem. 2007 Dec 21;282(51):37256-65. Epub 2007 Oct 19. ([DOI Direct Link](#))
- [Synthesis and biochemical evaluation of O-acetyl-ADP-ribose and N-acetyl analogs.](#)  
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- [N-lysine propionylation controls the activity of propionyl-CoA synthetase.](#)  
*Reversible protein acetylation is a ubiquitous means for the rapid control...*6th December, 2007  
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- [NAD<sup>+</sup> and NADH in brain functions, brain diseases and brain aging.](#)  
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- [The biochemistry of sirtuins.](#)  
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- [Bypassing the catalytic activity of SIR2 for SIR protein spreading in Saccharomyces cerevisiae.](#)

*Sir protein spreading along chromosomes and silencing in Saccharomyces...* 24th January, 2007  
Department of Biochemistry, Purdue Cancer Center, Purdue University, West- Mol Biol Cell. 2006  
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- [The role of NAD+ dependent histone deacetylases \(sirtuins\) in ageing.](#)  
*Histone deacetylases (HDACs) are enzymes that are able to deacetylate...* 5th January, 2007  
Institute of Pharmaceutical Sciences, University of Freiburg, Freiburg,- Curr Drug Targets. 2006  
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- [The 39-kDa poly\(ADP-ribose\) glycohydrolase ARH3 hydrolyzes O-acetyl-ADP-ribose, a product of the Sir2 family of acetyl-histone deacetylases.](#)  
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- [Insights into the sirtuin mechanism from ternary complexes containing NAD+ and acetylated peptide.](#)  
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- [Nuclear ADP-ribosylation reactions in mammalian cells: where are we today and where are we going?](#)  
*Since poly-ADP ribose was discovered over 40 years ago, there has been...* 18th October, 2006  
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- [NAD+ and NADH in cellular functions and cell death.](#)  
*Increasing evidence has indicated that NAD+ and NADH play critical roles...* 28th June, 2006  
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- [The Biochemistry of Sirtuins.](#)  
*Sirtuins are a family of NAD(+)-dependent protein deacetylases widely...* 11th April, 2006  
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## O-Acetyl-ADP-Ribose Patents:



- 7291606- [Compositions and methods for identifying agents which regulate chromosomal stability, gene activation and aging](#)
- 6987091- [Sir2 products and activities](#)

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