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FEBS Letters Volume 583. Issue 10 , Pages 1593-1598, 19 May 2009 Hydrolysis of the phosphoanhydride linkage of cyclic ADP-ribose by the Mn²-dependent ADP-ribose/CDP-alcohol pyrrophosphatase Edited by Judit Ovadi Jose Canales. Ascension Fernandez, Josenim Rul Rodriques. But Ferreira. Jose Metreles Ribero. Alcia Cabezas. Maria Jesus Costas. Jose Carlos Campsels 2 Received 27 March 2009; accepted 9 April 2009, published online 20 April 2009. Abstract Full Text PDF Images References Supplemental Materials Abstract Cyclic ADP-ribose (CADPR) metabolism in mammals is catalyzed by NAD glycohydrolases (NADases) that, besides forming ADP-ribose, from and hydrolyze the N1-glycostide linkage of cADPR. Thus far, no cADPR phosphorhydrolase was known. We tasted at ADP-ribose (DP-alcohol by prohosphatase (ADPRibase-Mn) and found that CADPR is an ADP-Ribase-Mn and suddent ADPR-Ribase-Mn ligand and substrate. ADPRibase-Mn activity on cADPR was 65-fold less efficient than on ADP-ribose, the best substrate. This is similar to the ADP-ribose/CDP-alcohol by NADases. The Product of cADPR hosphorhydrolysis by ADPRibase-Mn was N1-G-phosphorhosyl-AMP, suggesting a novel route for cADPR turnove. Abbraviations: ADPRibase-Mn Mn Nc2-dependent ADP-ribose/CDP-alcohol pyrochesphates, padDP-ribose/CDP-alcohol pyrochesphates. Phosphorhosyl-adenosine, Brib-AMP, N1-(-phosphorbosyl-adenosine S-monophosphate). Philo-ADP-Rib-AMP. N1-(-phosphorbosyl-adenosine S-monophosphate Keywords: Cycle ADP-ribose. ADP-ribose. Pyrochosphate. Keywords: Cycle ADP-ribose. ADP-ribose. Pyrochosphate. Login Register Login to an existing account or Register a new account. Purchase this article, please choose from the options below Login Register Login to his title. Get unimited college access to this article and all other articles in this title 24/7 for one year. Claim access for Wash Society Membership or Account Number. Visit SciVerse Science Direct to see if you have access via your institution.	Print or Share This Page Access this article on SciVerse ScienceDirect Article Tools Download Images* Fmail Abstract Add to My Reading List Rights/Permissions Request Reprints Related Articles (3) Cited in Scopus Export Citation Create Citation Alert Full Text On ScienceDirect Image Usage & Resolution
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FEBS Letters

Volume 583, Issue 10, Pages 1593-1598, 19 May 2009

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