

Uridine Diphosphate Sugars

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Recent Publications on Uridine Diphosphate Sugars:



- [Di-myo-inositol phosphate and novel UDP-sugars accumulate in the extreme hyperthermophile *Pyrolobus fumarii*.](#)
*The archaeon *Pyrolobus fumarii*, one of the most extreme members of...* 4th October, 2008
Instituto de Tecnologia Quimica e Biologica, Universidade Nova de Lisboa,- *Extremophiles*. 2008 May;12(3):383-9. Epub 2008 Feb 20. ([DOI Direct Link](#))
- [CDP-alcohol hydrolase, a very efficient activity of the 5'-nucleotidase/UDP-sugar hydrolase encoded by the *ushA* gene of *Yersinia intermedia* and *Escherichia coli*.](#)
Nucleoside 5'-diphosphate-X hydrolases are interesting enzymes to study... 23rd September, 2008
Departamento de Bioquimica y Biologia Molecular y Genetica, Facultad de- *J Bacteriol*. 2008 Sep;190(18):6153-61. Epub 2008 Jul 18. ([DOI Direct Link](#))
- [UDP-Xylose-stimulated glucuronyltransferase activity in wheat microsomal membranes: characterization and role in glucurono\(arabino\)xylan biosynthesis.](#)
*Microsomal membranes from etiolated wheat (*Triticum aestivum*) seedlings...* 4th September, 2008
Department of Environmental and Plant Biology, Molecular and Cellular- *Plant Physiol*. 2008 May;147(1):78-91. Epub 2008 Mar 21. ([DOI Direct Link](#))
- [Synthesis and photolytic activation of 6''-O-2-nitrobenzyl uridine-5'-diphosphogalactose: a 'caged' UDP-Gal derivative.](#)
Placing an 2-nitrobenzyl group on O-6 of the galactosyl residue in... 3rd June, 2008
Carlsberg Laboratory, Gamle Carlsberg Vej 10, Valby, Copenhagen, Denmark.- *Carbohydr Res*. 2008 Apr 7;343(5):875-81. Epub 2008 Jan 26. ([DOI Direct Link](#))
- [Mannose inhibits hyaluronan synthesis by down-regulation of the cellular pool of UDP-N-acetylhexosamines.](#)
We found that d-mannose dose-dependently decreases hyaluronan synthesis in... 13th May, 2008
Institute of Biomedicine/Anatomy, University of Kuopio, P. O. Box 1627,- *J Biol Chem*. 2008 Mar 21;283(12):7666-73. Epub 2008 Jan 16. ([DOI Direct Link](#))
- [Acetamido sugar biosynthesis in the Euryarchaea.](#)
Archaea and eukaryotes share a dolichol phosphate-dependent system for... 30th April, 2008
Institute for Cellular and Molecular Biology, University of Texas at- *J Bacteriol*. 2008 Apr;190(8):2987-96. Epub 2008 Feb 8. ([DOI Direct Link](#))
- [Coordinated release of nucleotides and mucin from human airway epithelial Calu-3 cells.](#)
The efficiency of the mucociliary clearance (MCC) process that removes... 18th January, 2008
Cystic Fibrosis/Pulmonary Research and Treatment Center, The University of- *J Physiol*. 2007 Oct 1;584(Pt 1):245-59. Epub 2007 Jul 26. ([DOI Direct Link](#))

- [Chemoenzymatic synthesis with distinct Pasteurella heparosan synthases: monodisperse polymers and unnatural structures.](#)
Heparosan (-GlcUA-beta 1,4-GlcNAc-alpha 1,4-)(n) is a member of the... 9th November, 2007
Department of Biochemistry and Molecular Biology, Oklahoma Center for- J Biol Chem. 2007 Sep 28;282(39):28321-7. Epub 2007 Jul 11. ([DOI Direct Link](#))
- [Effects of glucosamine sulfate on intracellular UDP-hexosamine and UDP-glucuronic acid levels in bovine primary chondrocytes.](#)
OBJECTIVE: To analyze the effects of exogenously added glucose (Glc),... 9th November, 2007
Department of Anatomy, Institute of Biomedicine, University of Kuopio,- Osteoarthritis Cartilage. 2007 Jul;15(7):773-9. Epub 2007 Feb 21. ([DOI Direct Link](#))
- [Properties and physiological functions of UDP-sugar pyrophosphorylase in Arabidopsis.](#)
UDP-sugar pyrophosphorylase catalyzes the conversion of various... 21st August, 2007
Division of Life Science, Graduate School of Science and Engineering,- Biosci Biotechnol Biochem. 2007 Mar;71(3):761-71. Epub 2007 Mar 7.
- [MS analysis of chondroitin polymerization: effects of Mn²⁺ ions on the stability of UDP-sugars and chondroitin synthesis.](#)
Chondroitin polymerase from Escherichia coli strain K4 (K4CP) synthesizes... 19th August, 2007
Institute for Molecular Science of Medicine, Aichi Medical University,- Anal Biochem. 2007 Jun 1;365(1):62-73. Epub 2007 Feb 24. ([DOI Direct Link](#))
- [Stereoselective chemical synthesis of sugar nucleotides via direct displacement of acylated glycosyl bromides.](#)
[structure: see text]. The use of Leloir glycosyltransferases to prepare... 16th May, 2007
Department of Chemistry, Dalhousie University, Halifax, NS, Canada.- Org Lett. 2007 Mar 29;9(7):1227-30. Epub 2007 Mar 6. ([DOI Direct Link](#))
- [A plant mutase that interconverts UDP-arabinofuranose and UDP-arabinopyranose.](#)
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Forestry and Forest Products Research Institute, Tsukuba, Ibaraki, Japan.- Glycobiology. 2007 Mar;17(3):345-54. Epub 2006 Dec 20. ([DOI Direct Link](#))
- [Quantitative continuous assay for hyaluronan synthase.](#)
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- [Direct oxidation of sugar nucleotides to the corresponding uronic acids: TEMPO and platinum-based procedures.](#)
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Centre for Carbohydrate Chemistry, School of Chemical Sciences and- Carbohydr Res. 2007 Feb 26;342(3-4):460-6. Epub 2006 Oct 25. ([DOI Direct Link](#))

Uridine Diphosphate Sugars Patents:



- 7060796- [Antibody directed against purified .beta. 1,2-xylosyltransferase](#)
- 6593462- [Purified .beta.1,2-xylosyltransferase and uses thereof](#)
- 6451611- [Quantitative analysis of hexose-monophosphates from biological samples](#)
- 6168937- [Purified .beta.1,2-xylosyltransferase and uses thereof](#)

- 5753483- [Purified homogeneous UDP-GlcNAc \(GalNAc\) pyrophosphorylase](#)

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