Contents lists available at ScienceDirect

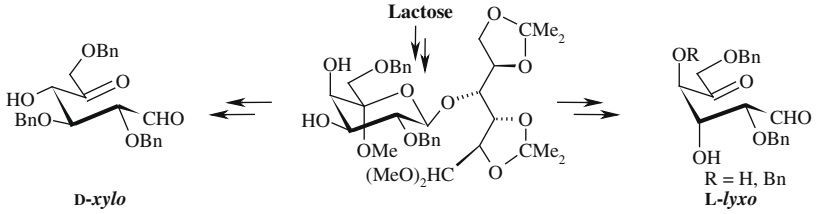
Carbohydrate Research

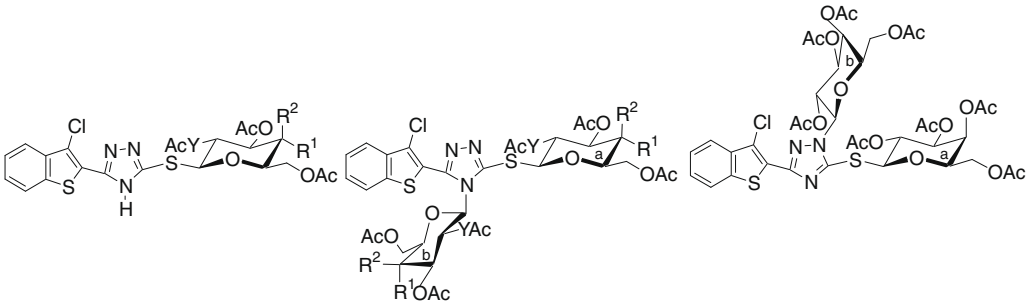
journal homepage: www.elsevier.com/locate/carres

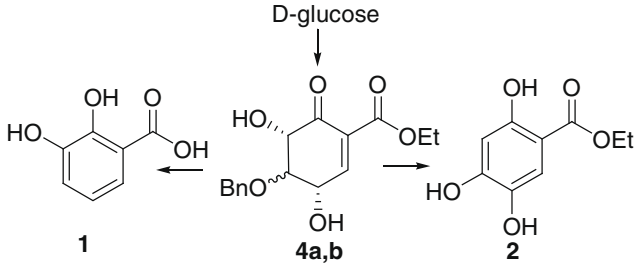
Carbohydrate Research Vol. 344, No. 6, 2009

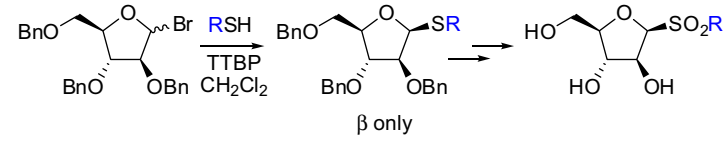
Contents

Full Papers





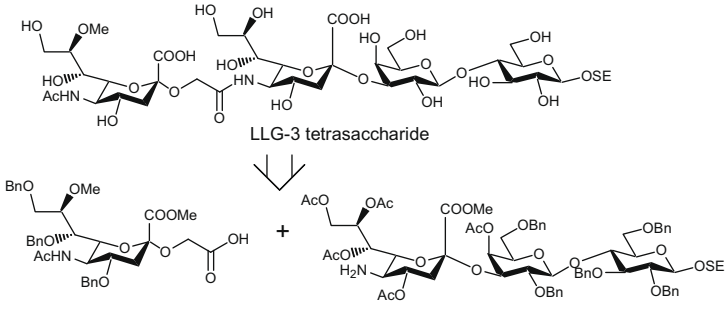


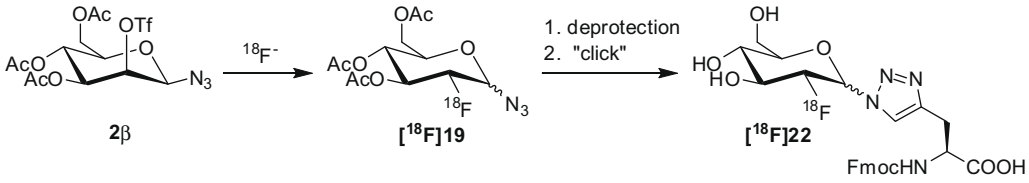


β only

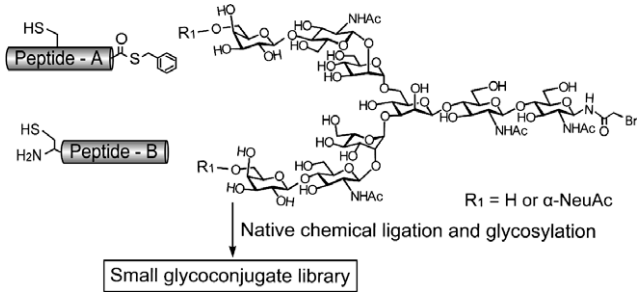
R = $(CH_2)_nCH_3$, n = 3, 5, 7, 9, 11, 13, 15

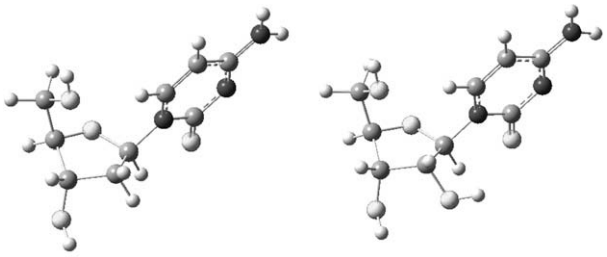
selective anti-mycobacterial activity at <200 μgml^{-1} for n ⩾ 9, maximal for n = 11



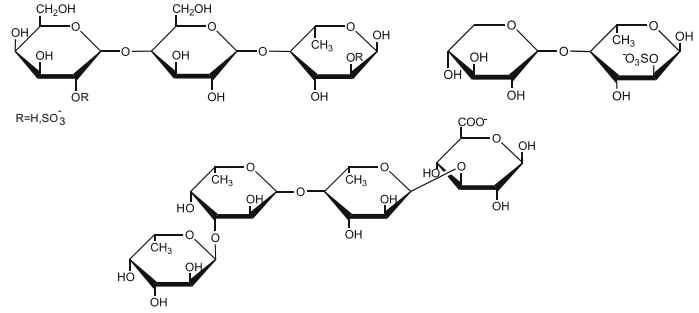


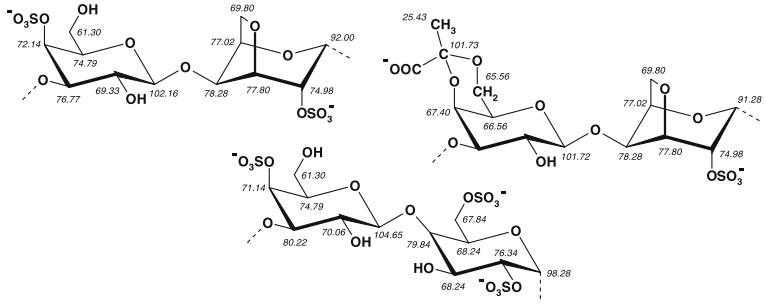
2β **[^{18}F]19** **[^{18}F]22**

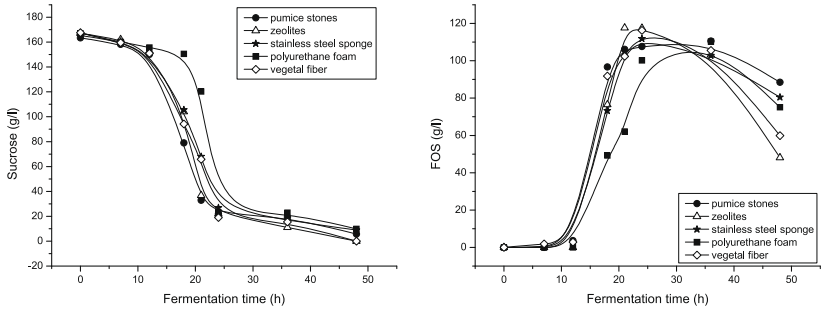


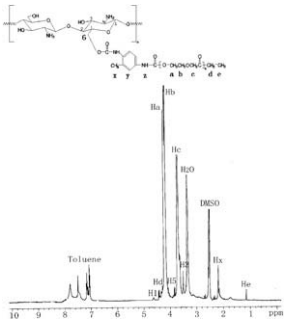


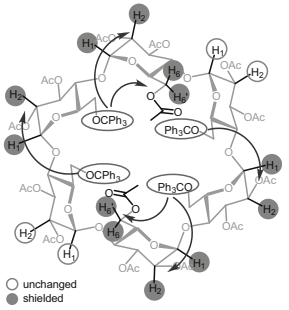
Conformational properties of cytosine nucleosides, that is, cytidine and 2′-deoxycytidine molecules during complexation with Li^+, Na^+, and K^+ cations at the B3LYP/6-311++G(d,p) density functional level, are described.



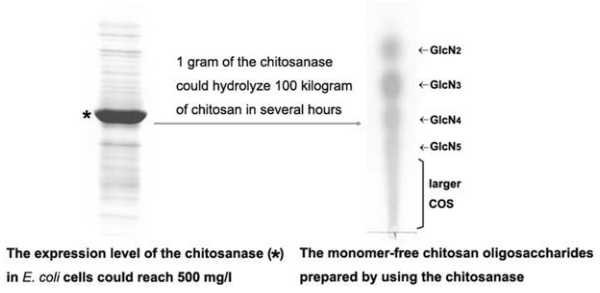


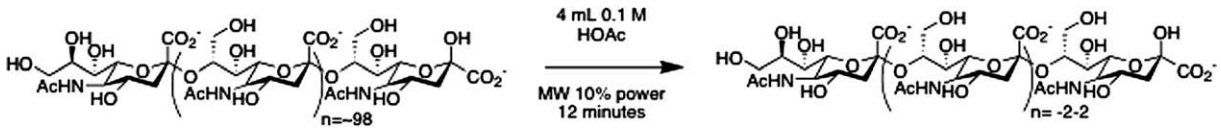


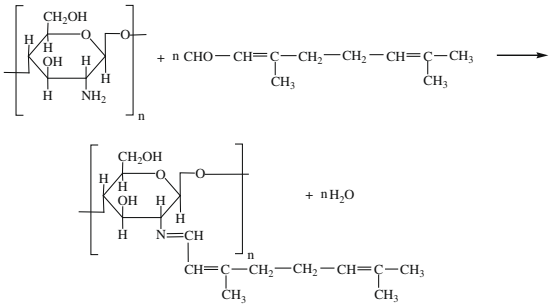


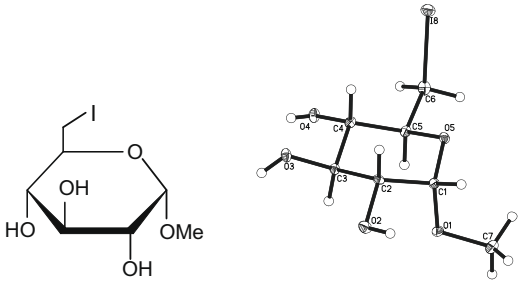


Notes









*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Shown is a fluorescence image of cell-surface glycans in a 3-day old zebrafish larva. Dierent colors represent glycans biosynthesized at dierent times in development. The glycans were imaged in live zebrafish using a two-step approach termed the bioorthogonal chemical reporter strategy. Embryos were first metabolically labeled with the unnatural monosaccharide *N*-azidoacetylgalactosamine, which targets the core position of mucin-type O-glycans; subsequently, the azide-containing glycans were reacted with a cyclooctyne–fluorophore conjugate by copper-free click chemistry, a step that was repeated multiple times to target temporally distinct glycan pools with dierent fluorophores. This work is the result of a collaboration between the Departments of Chemistry and Molecular and Cell Biology at the University of California, Berkeley [Laughlin, S. T.; Baskin, J. M.; Amacher, S. L.; Bertozzi, C. R. *Science* **2008**, *320*, 664].

Available online at www.sciencedirect.com
ScienceDirect

Abstracted/Indexed in: Chem. Abstr.: Curr. Contents: Phys., Chem. & Earth Sci. Life Sci. Current Awareness in Bio. Sci. (CABS). Science Citation Index. Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database which is availabe on STN® International. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

ELSEVIER

ISSN 0008-6215