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Carbohydrate
RESEARCH

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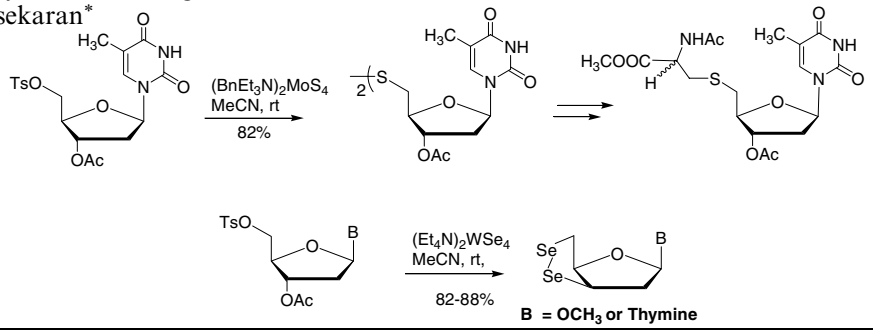
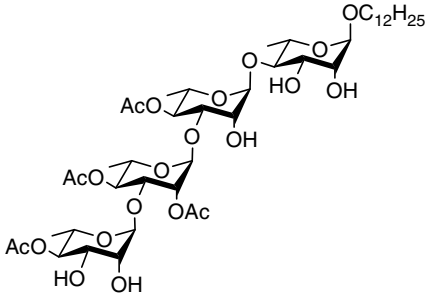
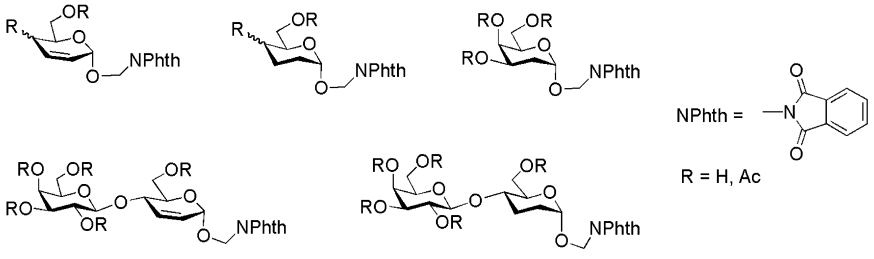
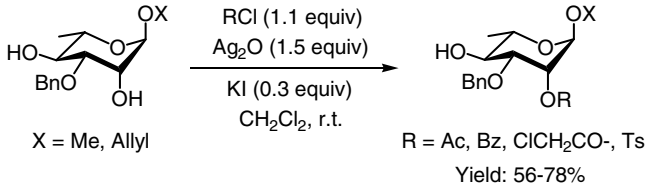
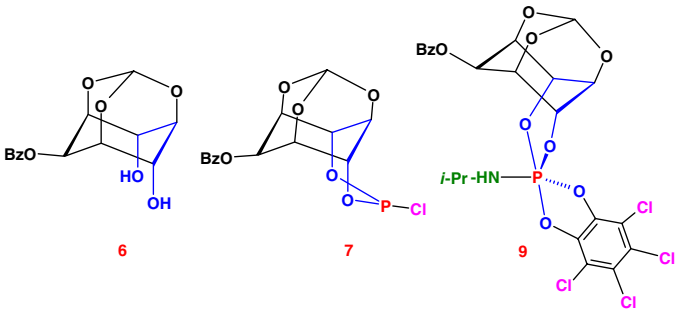


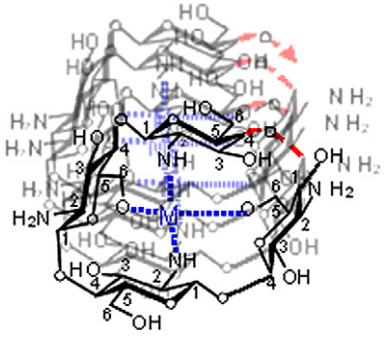


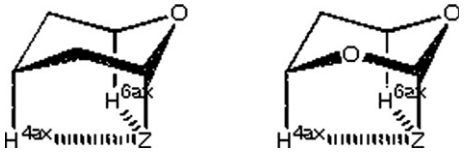


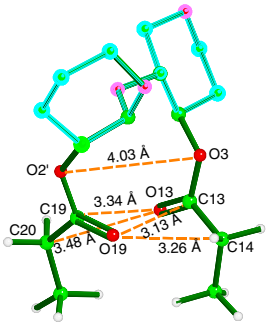


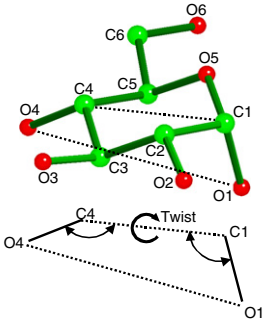
Synthesis and X-ray structures of the first examples of a cyclic phosphorochloridite (**7**) and a pentacoordinate phosphorane (**9**) based on 1,2,3,5-protected *myo*-inositol that exhibit a new boat conformation for the 1,3,2-dioxaphosphorinane ring, are reported. A chromatography-free synthesis of the protected diol, benzoic acid 8,9-dihydroxy-2,4,10-trioxa-tricyclo[3.3.1*3,7*]dec-6-yl ester (**6**), is presented.











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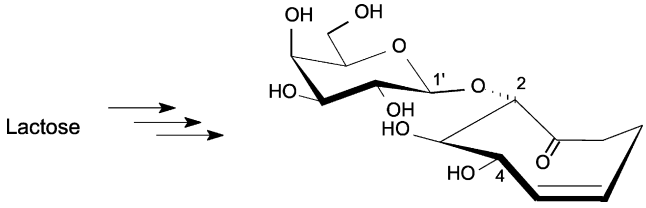

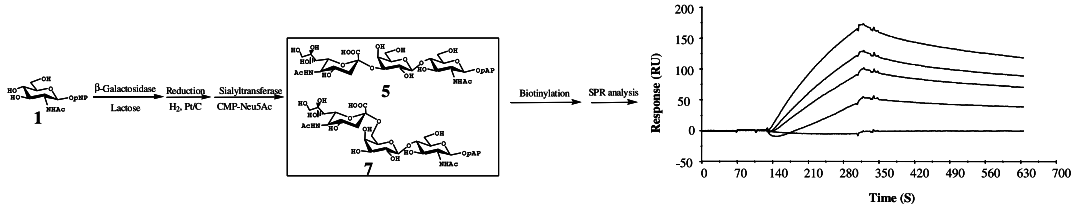

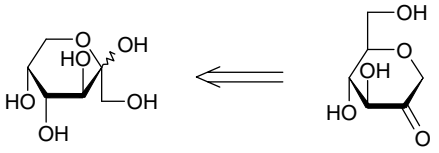

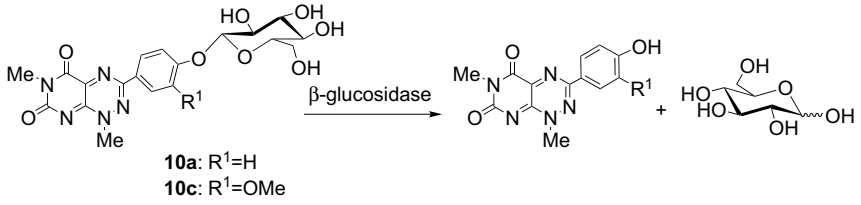

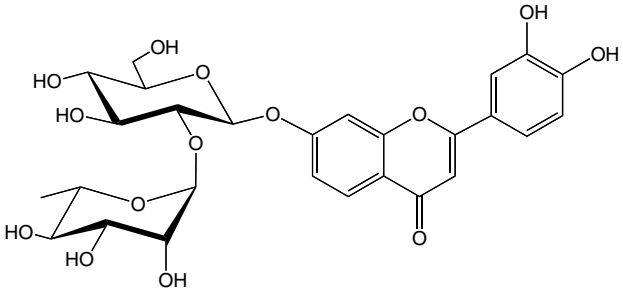

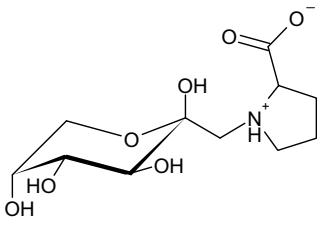

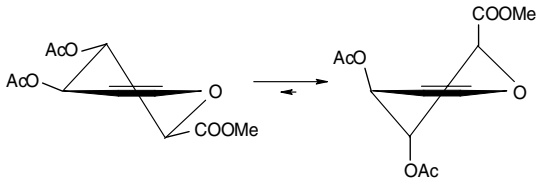

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*Corresponding author

ⓘ+ Supplementary data available via ScienceDirect

COVER

The image shows the ball-and-stick representation of a potent *n*-butyl thiazoline inhibitor of *Q*-GlcNAcase, bound in the active centre of the enzyme. The work is the result of collaboration between the groups of Professors David Vocadlo (Simon Fraser University, British Columbia, Canada) and Gideon Davies (University of York, UK). The image, generated with PYMOL (DeLano Scientific LLC, http://pymol.sourceforge.net/), shows the observed electron density as a blue "wire-cage" inside the active centre pocket represented by the smooth surface.

Professor Davies was presented with the Roy L Whistler Award of the International Carbohydrate Organization at the XXIIIrd International Carbohydrate Symposium in Whistler in 2006.

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