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REVIEW

Fluorinated cyclitols as useful biological probes of phosphatidylinositol metabolism

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David J. A. Schedler* and David C. Baker*



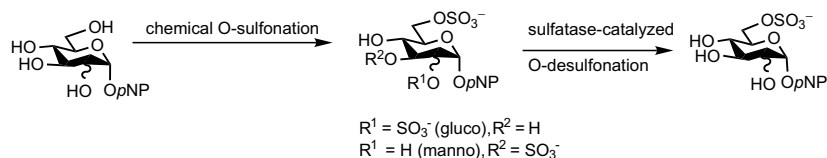
Deoxfluoro cyclitols

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Sulfatase-catalyzed assembly of regioselectively O-sulfonated *p*-nitrophenyl α -D-gluco- and α -D-mannopyranosides

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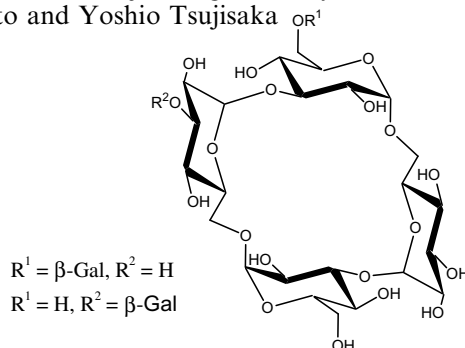
Hirotaaka Uzawa,* Yoshihiro Nishida, Kenji Sasaki, Takehiro Nagatsuka, Hideo Hiramatsu and Kazukiyo Kobayashi



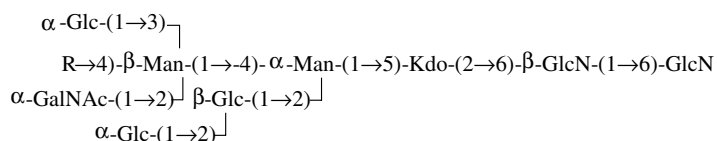
Enzymatic synthesis of a β -D-galactopyranosyl cyclic tetrasaccharide by β -galactosidases

pp 1603–1608

Takanobu Higashiyama,* Hikaru Watanabe, Hajime Aga, Tomoyuki Nishimoto, Michio Kubota, Shigeharu Fukuda, Masashi Kurimoto and Yoshio Tsujisaka



Evgeny Vinogradov* and Malcolm B. Perry


$$\begin{array}{c} \rightarrow 3)-\beta\text{-D-GalpNAc-(1}\rightarrow 4)\text{-}\beta\text{-D-GlcpA-(1}\rightarrow 3)\text{-}\beta\text{-D-GalpNAc-(1}\rightarrow 2)\text{-}\alpha\text{-D-GalpA-(1}\rightarrow \\ | \\ 6 \\ | \\ 2S,8S\text{-AlaLys} \end{array}$$

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Erratum	p 1663
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COVER

Well-defined glycoforms of glycoproteins can easily be obtained by oxidative coupling of synthetic thioaldoses with proteins that have a cysteine moiety in lieu of an asparagine residue carrying natural N-linked oligosaccharides. In vitro glycosylation offers several advantages such as quantitative conjugation, incorporation of oligosaccharides that display high bioactivities and the possibility of using convenient bacterial or yeast protein expression systems. The figure is related to Geert-Jan Boons' *Carbohydrate Research Award* paper, *Carbohydr. Res.*, **2004**, 339, 181–193.



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