

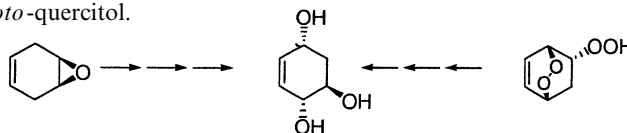
A novel and short synthesis of (1,4/2)-cyclohex-5-ene-triol and its conversion to ($\pm$)-proto-quercitol

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(1,4/5)-Cyclohex-3-ene-triol was synthesized by starting from cyclohexa-1,4-diene with two different ways. Oxidation of the double bond with KMnO₄ resulted in the formation of ($\pm$)-proto-quercitol.



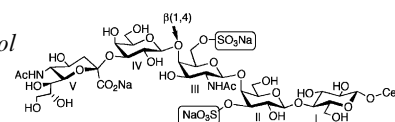
Systematic synthesis and MAG-binding activity of novel sulfated GM1b analogues as mimics of Chol-1 (α -series) gangliosides: highly active ligands for neural sigles

Hiromi Ito,^a Hideharu Ishida,^a Brian E. Collins,^b Susan E. Fromholt,^b Ronald L. Schnaar,^b Makoto Kiso^a

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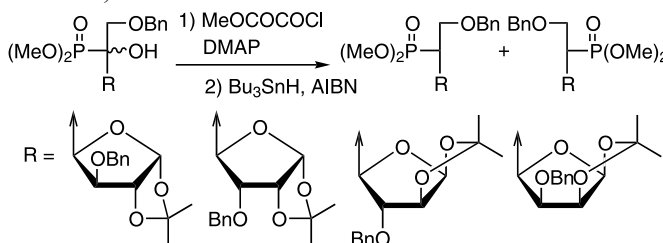
One of the novel GM1b analogues showed the potent MAG activity.



Stereoselectivity in deoxygenation of 5-hydroxy-5-phosphinyl-hexofuranoses (α -hydroxyphosphonates)

Tadashi Hanaya, Ken-ichi Sugiyama, Heizan Kawamoto, Hiroshi Yamamoto

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Kinetic modelling of Amadori N-(1-deoxy-D-fructos-1-yl)-glycine degradation pathways. Part I—Reaction mechanism

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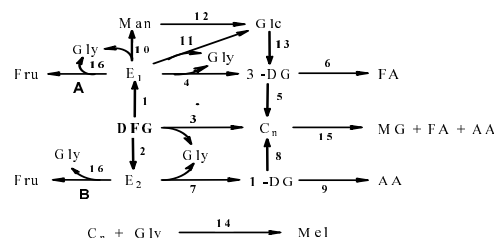
N-(1-Deoxy-D-fructos-1-yl)-glycine degradation pathways into free amino acid (glycine), carbohydrate fragments (sugars, organic acids, deoxyosones, methylglyoxal) and melanoidins were discussed and the reaction routes established.

Kinetic modelling of Amadori *N*-(1-deoxy-D-fructos-1-yl)-glycine degradation pathways. Part II—Kinetic analysis

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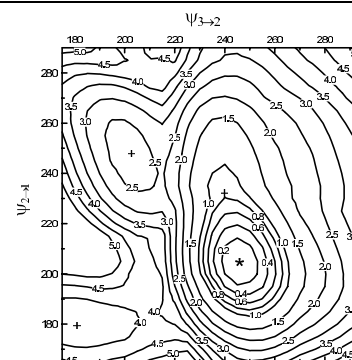


MM3 Potential energy surfaces of the 2-linked glucosyl trisaccharides α -kojitriose and β -sophorotriose

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Carbohydr. Res. **2003**, 338, 1679



Structural characterization of Botryosphaeran: a (1 $\rightarrow$ 3;1 $\rightarrow$ 6)- β -D-glucan produced by the ascomyceteous fungus, *Botryosphaeria* sp.

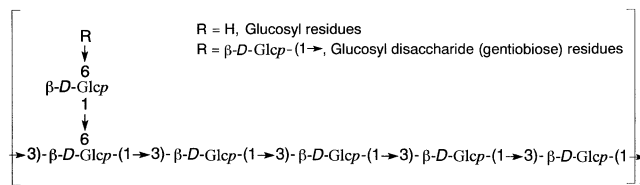
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Carbohydr. Res. **2003**, 338, 1691



Change of handedness in cholesteric liquid crystalline phase for *N*-phthaloylchitosan solutions in organic solvents

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