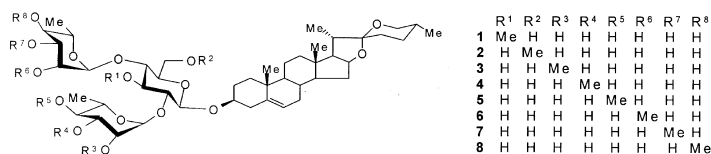


Synthesis of monomethylated dioscin derivatives and their antitumor activities

Ming Li,^a Xiuwen Han,^a Biao Yu^b

^aState Key Laboratory of Catalyst, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

^bState Key Laboratory of Bio-organic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China



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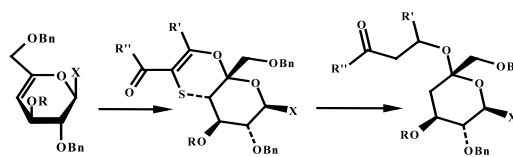
Conformational evaluation of some 4-deoxy-hex-4-enopyranose derivatives and their use in the preparation of a previously undescribed class of 3-thio-L-sorbopyranosides and their 6-C-methoxy analogues

Giuseppe Capozzi,^a Giorgio Catelani,^b Felicia D'Andrea,^b Stefano Menichetti,^c Cristina Nativi^a

^aCentro CNR 'Chimica e Struttura Composti Eterociclici', Dipartimento di Chimica Organica 'Ugo Schiff', Università di Firenze, via della Lastruccia, 13 I-50019 Sesto Fiorentino (FI), Italy

^bDipartimento di Chimica Bioorganica e Biofarmacia, Università di Pisa, via Bonanno, 33 I-56126 Pisa, Italy

^cDipartimento di Chimica Organica e Biologica, Università di Messina, Salita Sperone, 31 I-98166 Messina, Italy



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Synthesis and induction of apoptosis in B cell chronic leukemia by diosgenyl 2-amino-2-deoxy-β-D-glucopyranoside hydrochloride and its derivatives

Henryk Myszk, ^aDorota Bednarczyk, ^aMaria Najder, ^bWiesław Kaca^{c,d}

^aFaculty of Chemistry, University of Gdańsk, Sobieskiego 18, 80-952 Gdańsk, Poland

^bDepartment of Tumor Pathology, Medical University of Łódź, Paderewskiego 4, 93-513 Łódź, Poland

^cMicrobiology and Virology Center of the Polish Academy of Sciences, Lodowa 106, 93-232 Łódź, Poland

^dŚwiętokrzyska Academy, Department of Microbiology, Świętokrzyska 15, 25-405 Kielce, Poland

The *N*-trifluoroacetyl- and *N*-tetrachlorophthaloyl-protected bromides and chloride of D-glucosamine have been used as glycosyl donors for the glycosylation of diosgenin [(25*R*)-spirost-5-en-3β-ol]. These glycosides were converted into diosgenyl 2-amino-2-deoxy-β-D-glucopyranoside and its derivatives, which showed promising antitumor activities. The structures of all new glycosides were established by ¹H and ¹³C NMR spectroscopy. The synthetic saponins increase the number of apoptotic B cells, in combination with cladribine (2-CdA), that were isolated from chronic lymphocytic leukemia (B-CLL) patients.

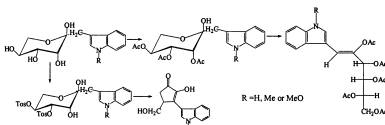
Carbohydr. Res. **2003**, *338*, 133

Study of 1-deoxy-1-(indol-3-yl)-L-sorbose, 1-deoxy-1-(indol-3-yl)-L-tagatose, and their analogs

Sergey N. Lavrenov,^a Alexander M. Korolev,^a Marina I. Reznikova,^a Andrey V. Sosnov,^b Maria N. Preobrazhenskaya^a

^aGause Institute of New Antibiotics, Russian Academy of Medical Sciences, B. Pirogovskaya 11, Moscow 119992, Russia

^bState Research Institute of Organic Chemistry and Technology, Shosse Entusiastov 23, Moscow 111024, Russia



Fucoidans from the brown seaweed *Adenocystis utricularis*: extraction methods, antiviral activity and structural studies

Carbohydr. Res. **2003**, *338*, 153

Nora M.A. Ponce,^a Carlos A. Pujol,^b Elsa B. Damonte,^b María L. Flores,^c Carlos A. Stortz^a

^aDepartamento de Química Orgánica-CIHIDECAR, Facultad de Ciencias Exactas y Naturales, Univ. Buenos Aires, Pab.2 Ciudad Universitaria, 1428 Buenos Aires, Argentina

^bVirología, Departamento de Química Biológica, Facultad de Ciencias Exactas y Naturales, Univ. Buenos Aires, Pab.2 Ciudad Universitaria, 1428 Buenos Aires, Argentina

^cFarmacognosia, Departamento de Farmacia, Facultad de Ciencias Naturales, Universidad Nacional de la Patagonia San Juan Bosco, Km.4, 9000 Comodoro Rivadavia, Argentina

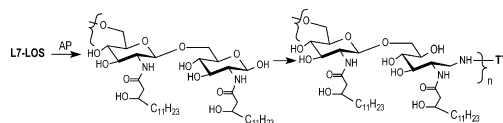
The brown seaweed *Adenocystis utricularis* biosynthesizes at least two different types of fucoidans: the galactofucans and the uronofucoidans. The galactofucans show high antiviral activities.

Conjugation of meningococcal lipooligosaccharides through their lipid A terminus conserves their inner epitopes and results in conjugate vaccines having improved immunological properties

Carbohydr. Res. **2003**, *338*, 167

Malgorzata Mieszala, Grigoriy Kogan, Harold J. Jennings

Institute for Biological Sciences, National Research Council of Canada, 100 Sussex Drive, Ottawa, ON, Canada K1A 0R6

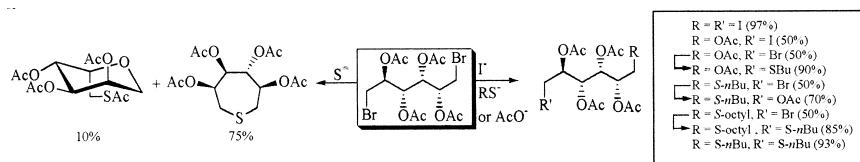


Peracetylated 1,6-dibromo-D-glucitol as efficient precursor of 1,6-diiodo and some mono-, disubstituted and heterocyclic D-glucitol derivatives

Carbohydr. Res. **2003**, *338*, 177

Sami Halila, Mohammed Benazza, Gilles Demailly

Laboratoire des Glucides, Université de Picardie Jules Verne, 33 rue Saint-Leu, F-80039 Amiens, France



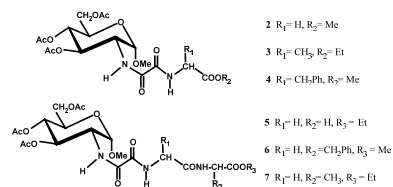
Synthesis and solid state ¹³C and ¹H NMR analysis of new oxamide derivatives of methyl 2-amino-2-deoxy- α -D-glucopyranoside and ester of amino acids or dipeptides

Carbohydr. Res. **2003**, *338*, 183

Andrzej Temeriusz,^a Magdalena Rowińska,^a Katarzyna Paradowska,^b Iwona Wawer^b

^aDepartment of Chemistry, Warsaw University, Pasteura 1, Warszawa 02-093, Poland

^bDepartment of Physical Chemistry, Faculty of Pharmacy, Medical Academy, Banacha 1, 02-097 Warszawa, Poland



Chemical synthesis of methyl 6'- α -maltosyl- α -maltotrioside and its use for investigation of the action of starch synthase II

Carbohydr. Res. **2003**, *338*, 189

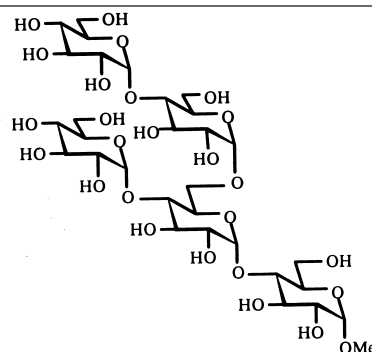
Iben Damager,^{a,c} Carl Erik Olsen,^{b,c} Andreas Blennow,^{a,c}
Kay Denyer,^d Birger Lindberg Møller,^{a,c} Mohammed Saddik Motawia^{a,c}

^aDepartment of Plant Biology, Carbohydrate Chemistry Group at Plant Biochemistry Laboratory, The Royal Veterinary and Agricultural University, 40 Thorvaldsensvej, DK-1871 Frederiksberg C, Copenhagen, Denmark

^bDepartment of Chemistry, The Royal Veterinary and Agricultural University, 40 Thorvaldsensvej, DK-1871 Frederiksberg C, Copenhagen, Denmark

^cCentre for Molecular Plant Physiology (PlaCe), The Royal Veterinary and Agricultural University, 40 Thorvaldsensvej, DK-1871 Frederiksberg C, Copenhagen, Denmark

^dJohn Innes Centre, Norwich Park, Norfolk NR4 7UH, UK



A facile protocol for direct conversion of unprotected sugars into phenyl 4,6-*O*-benzylidene-per-*O*-acetylated-1,2-*trans*-thioglycosides

Carbohydr. Res. **2003**, *338*, 199

Kim Larsen,^{a,c} Carl Erik Olsen,^{b,c} Mohammed Saddik Motawia^{a,c}

^aCarbohydrate Chemistry Group at Plant Biochemistry Laboratory, Department of Plant Biology, The Royal Veterinary and Agricultural University, 40 Thorvaldsensvej, DK-1871 Frederiksberg C, Copenhagen, Denmark

^bDepartment of Chemistry, The Royal Veterinary and Agricultural University, 40 Thorvaldsensvej, DK-1871 Frederiksberg C, Copenhagen, Denmark

^cCenter for Molecular Plant Physiology (PlaCe), The Royal Veterinary and Agricultural University, 40 Thorvaldsensvej, DK-1871 Frederiksberg C, Copenhagen, Denmark

