

GRAPHICAL ABSTRACTS

BioMed. Chem. 1993, 1, 77

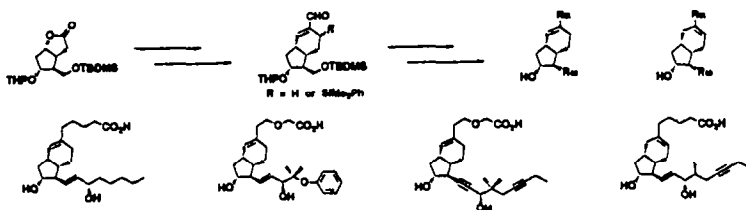
Syntheses and Biological Activities of Chemically Stable Prostacyclin Mimics with *cis*-Bicyclo[4.3.0]nonene Ring System : The Novel Homoisocarbacyclin Analogues

Sen-ichi Narita,^{a*} Atsuo Takahashi,^a Tsuyoshi Aoki,^a Hiroyasu Sato,^a Shoji Satoh,^a Shin-ichi Yamada,^a

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Conformationally Constrained Analogues of Diacylglycerol (DAG)—II.

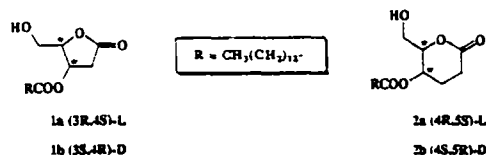
BioMed. Chem. 1993, 1, 119

Differential Interaction of δ -Lactones and γ -Lactones with Protein Kinase C (PK-C)

J. Lee,¹ V. E. Marquez,^{1*} P. M. Blumberg,² K. W. Krausz² and M. G. Kazanietz²

¹Laboratory of Medicinal Chemistry, Developmental Therapeutics Program, Division of Cancer Treatment and Molecular Mechanisms of Tumor Promotion Section; and ²Laboaratory of Cellular Carcinogenesis and Tumor Promotion, National Cancer Institute, National Institutes of Health, Bethesda, Maryland 20892

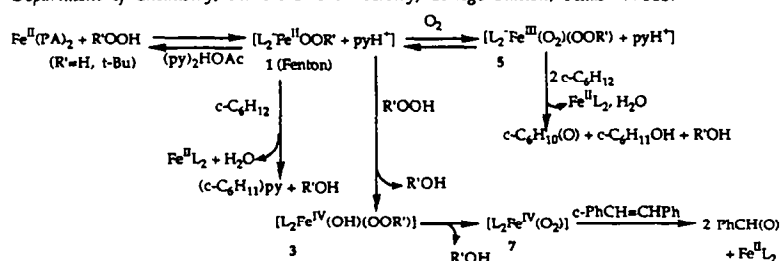
Starting with L- or D-tri-*O*-acetylglucal, the corresponding L- and D-isomers of 4-*O*-tetradecanoyl-2,3-dideoxyglucono-1,5-lactone (2a and 2b) were synthesized as rigid diacylglycerol (DAG) analogues



IRON(II)/HYDROPEROXIDE (FENTON REAGENT)-INDUCED ACTIVATION OF DIOXYGEN FOR (A) THE DIRECT KETONIZATION OF METHYLENIC CARBON AND (B) THE DIOXYGENATION OF CIS-STILBENE

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BioMed. Chem. 1993, 1, 125

Two Step Single Primer Mediated Polymerase Chain Reaction. Application to Cloning of Putative Mouse, β -Galactoside α 2,6-Sialyltransferase cDNA

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BioMed. Chem. 1993, 1, 141

Single primer mediated PCR is a method to amplify a particular DNA fragment beyond its known sequence region. It employs only one primer for the reaction. Compared to other PCR methods to amplify an adjacent sequence of known DNA fragment.

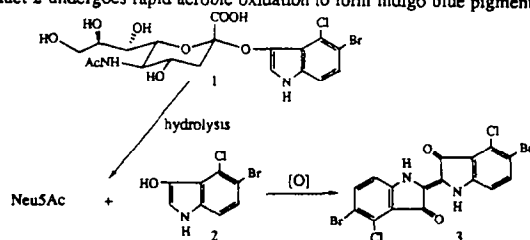
X-Neu5Ac: A Novel Substrate for Chromogenic Assay of Neuraminidase Activity in Bacterial Expression Systems

BioMed. Chem. 1993, 1, 147

I. Fujii,* Y. Iwabuchi, T. Teshima, T. Shiba and M. Kikuchi

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Simplified model for hydrolysis of chromogenic substrate 1. The hydrolysis product 2 undergoes rapid aerobic oxidation to form indigo blue pigment 3.



β -Lactamase Inhibitors Derived from *N*-Tosyloxy- β -Lactams

BioMed. Chem. 1993, 1, 151

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Electrophilic *N*-tosyloxy- β -lactams, *N*-tosyloxy-4-phenyl-2-azetidinone (2b) and *N*-tosyloxy-3-(*S*)-phthalimido-4-(*S*)-2-azetidinone (2c), are described. These agents are novel potent β -lactamase inhibitors.

Enzymatic Resolution of Racemic 1,2:5,6-di-*O*-Cyclohexylidene and 1,2:3,4-di-*O*-Cyclohexylidene-*myo*-Inositol

BioMed. Chem. 1993, 1, 155

L. Ling, X. Li, Y. Watanabe, T. Akiyama and S. Ozaki*

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Enzyme-catalyzed regio- and enantioselective esterification of racemic 1,2:5,6-di-*O*-cyclohexylidene- and 1,2:3,4-di-*O*-cyclohexylidene-*myo*-inositol, which are key intermediates for syntheses of various naturally occurring *myo*-inositol phosphate derivatives, proceeded exclusively in organic solvent to give optically pure materials and selectively protected products in gram scale.