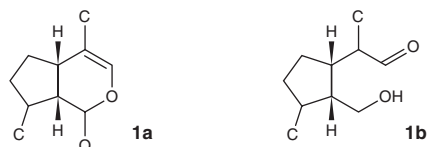


Contents

Review

Naturally Occurring Iridoids. A Review, Part 1

B. Dinda, S. Debnath, and Y. Harigaya



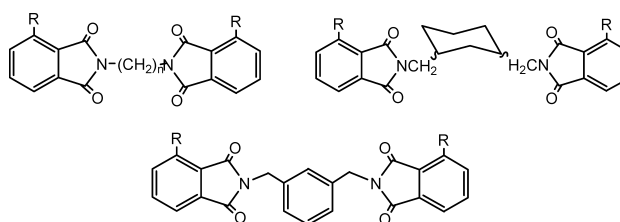
Four hundred and eighteen new naturally occurring iridoids (glycosides, aglycones and derivatives) reported during the period 1994 to 2005 are reviewed. The review consists of physical constants, spectral (UV, IR and NMR) data and plant source with reference for each compound.

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Regular Articles

Thalidomide Analogs from Diamines: Synthesis and Evaluation as Inhibitors of TNF- α Production

M. V. de Almeida, F. M. Teixeira, M. V. N. de Souza, G. W. Amarante, C. C. S. Alves, S. H. Cardoso, A. M. Mattos, A. P. Ferreira, and H. C. Teixeira

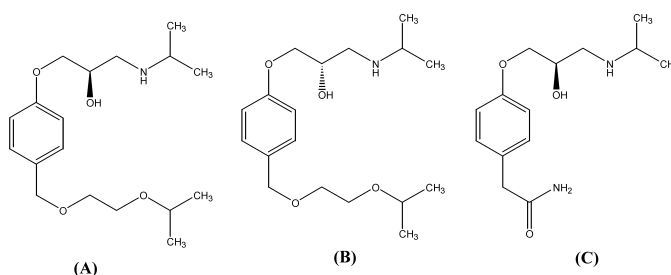


R = H, NO₂ or NH₂; n=2, 3, 4 or 6

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Enantioanalysis of Bisoprolol in Human Plasma with a Macrocyclic Antibiotic HPLC Chiral Column Using Fluorescence Detection and Solid Phase Extraction

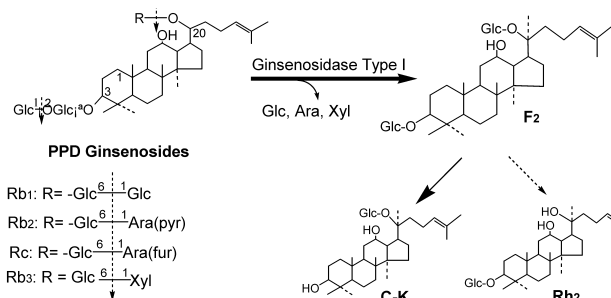
M. M. Hefnawy, M. A.-A. Sultan, and M. M. Al-Shehri



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Purification and Characterization of New Special Ginsenosidase Hydrolyzing Multi-Glycosides of Protopanaxadiol Ginsenosides, Ginsenosidase Type I

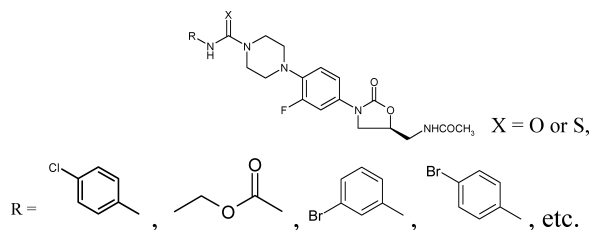
H. Yu, C. Zhang, M. Lu, F. Sun, Y. Fu, and F. Jin



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Synthesis and Evaluation of Urea and Thiourea Derivatives of Oxazolidinones as Antibacterial Agents

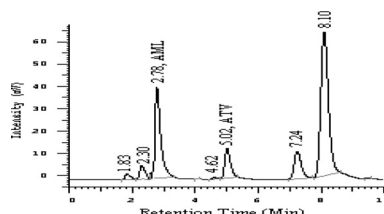
S. K. R. Aaramadaka, M. k. Guha, G. Prabhu, S. G. Kini, and M. Vijayan



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Stability Indicating RP-HPLC Method for Simultaneous Determination of Atorvastatin and Amlodipine from Their Combination Drug Products

B. G. Chaudhari, N. M. Patel, and P. B. Shah

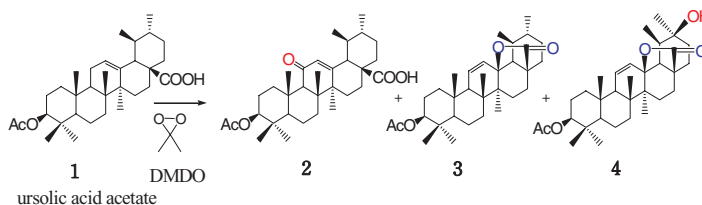


Simultaneous estimation of Atorvastatin and Amlodipine in presence of their degradation products.

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Oxyfunctionalization Products of Terpenoids with Dimethyldioxirane and Their Biological Activity

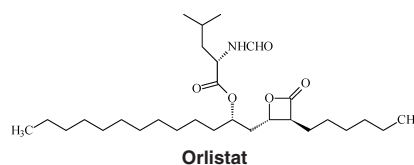
S. Ogawa, K. Hosoi, N. Ikeda, M. Makino, Y. Fujimoto, and T. Iida



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HPLC Analysis of Orlistat and Its Application to Drug Quality Control Studies

E. Souri, H. Jalalizadeh, A. Kebriaee-Zadeh, and B. Zadehvakili

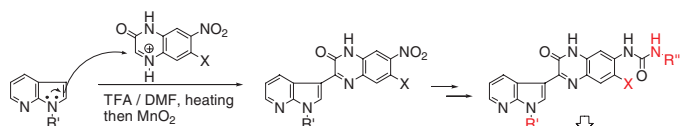


A simple, accurate and reproducible method was developed for determination of orlistat in pharmaceutical dosage forms. The dissolution conditions were also determined.

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Potent Platelet-Derived Growth Factor- β Receptor (PDGF- β Inhibitors: Synthesis and Structure–Activity Relationships of 7-[3-(Cyclohexylmethyl)ureido]-3-{1-methyl-1*H*-pyrrolo[2,3-*b*]pyridin-3-yl}quinoxalin-2(1*H*)-one Derivatives

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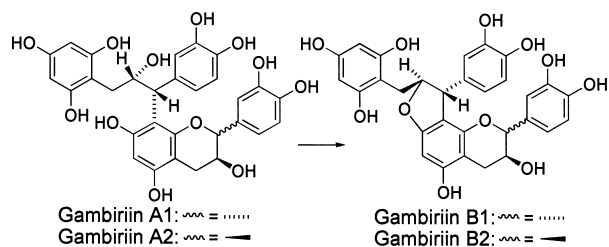


SAR study for PDGF- β Receptor inhibitor

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Revised Structures of Gambiriins A1, A2, B1, and B2, Chalcane-Flavan Dimers from Gambir (*Uncaria gambir* Extract)

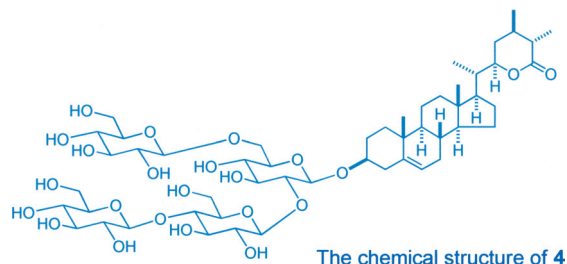
S. Taniguchi, K. Kuroda, K. Doi, M. Tanabe, T. Shibata, T. Yoshida, and T. Hatano



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New Glycosides from the Rhizomes of *Tacca chantrieri*

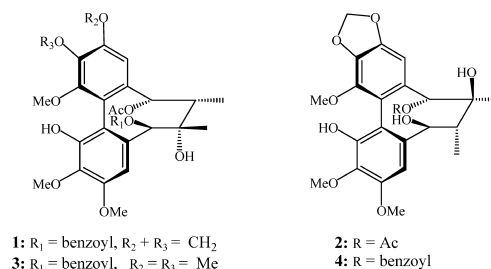
A. Yokosuka and Y. Mimaki



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Four New Nonaxygenated C₁₈ Dibenzocyclooctadiene Lignans from *Kadsura philippinensis*

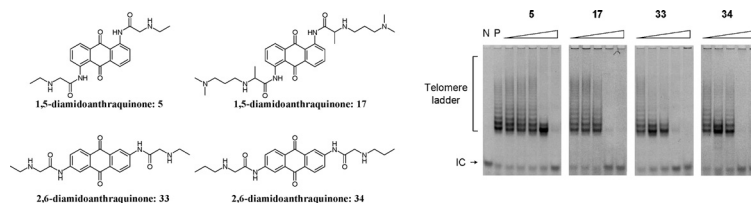
Y.-C. Shen, Y.-C. Lin, A. F. Ahmed, Y.-B. Cheng, C.-C. Liaw, and Y.-H. Kuo



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Synthesis and Human Telomerase Inhibition of a Series of Regioisomeric Disubstituted Amidoanthraquinones

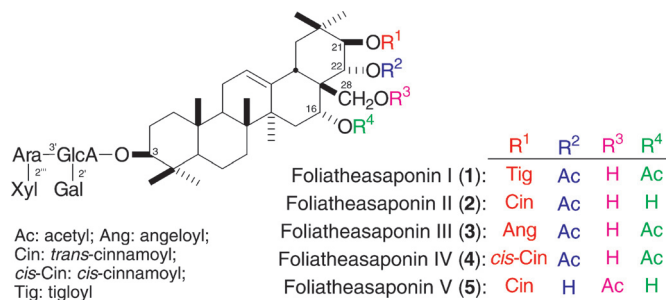
H.-S. Huang, I.-B. Chen, K.-F. Huang, W.-C. Lu, F.-Y. Shieh, Y.-Y. Huang, F.-C. Huang, and J.-J. Lin



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Bioactive Saponins and Glycosides. XXVIII. New Triterpene Saponins, Foliatheasaponins I, II, III, IV, and V, from Tencha (the Leaves of *Camellia sinensis*)

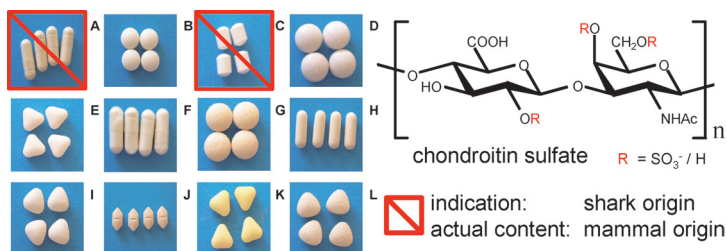
T. Morikawa, S. Nakamura, Y. Kato, O. Muraoka, H. Matsuda, and M. Yoshikawa



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Identification of the Origin of Chondroitin Sulfate in “Health Foods”

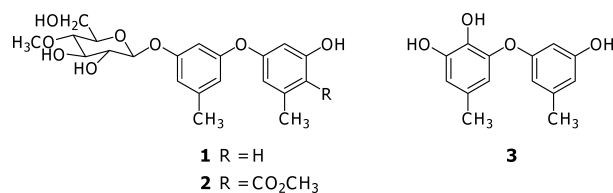
S. Sakai, E. Otake, T. Toida, and Y. Goda



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New Diphenyl Ethers from the Insect Pathogenic Fungus *Cordyceps* sp. BCC 1861

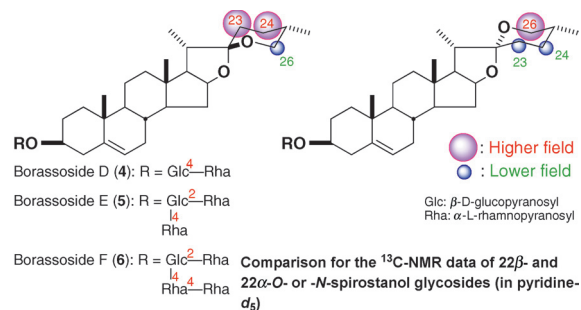
T. Bunyapaiboonsri, S. Yoiprommarat, K. Intereya, and K. Kocharin



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Medicinal Flowers. XII. New Spirostane-Type Steroid Saponins with Antidiabetogenic Activity from *Borassus flabellifer*

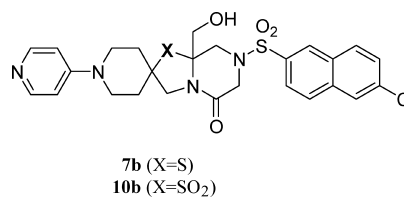
M. Yoshikawa, F. Xu, T. Morikawa, Y. Pongpiriyadacha, S. Nakamura, Y. Asao, A. Kumahara, and H. Matsuda



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Synthesis and Evaluation of 1-Arylsulfonyl-3-piperazinone Derivatives as Factor Xa Inhibitors VI. A Series of New Derivatives Containing *N,S*- and *N,SO*₂-Spiro Acetal Scaffolds

F. Saitoh, H. Nishida, T. Mukaihira, N. Kosuga, M. Ohkouchi, T. Matsusue, I. Shiromizu, Y. Hosaka, M. Matsumoto, and I. Yamamoto

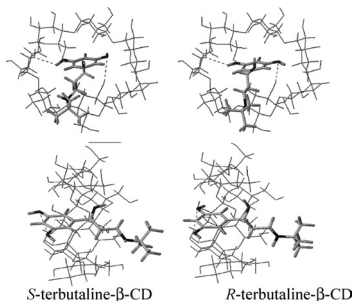


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Notes

A Study on the Chiral Recognition Mechanism of Enantioseparation of Adrenaline and Its Analogues Using Capillary Electrophoresis

G. Zhang, Z. Hong, Y. Chai, Z. Zhu, Y. Song, C. Liu, S. Ji, X. Yin, and Y. Wu

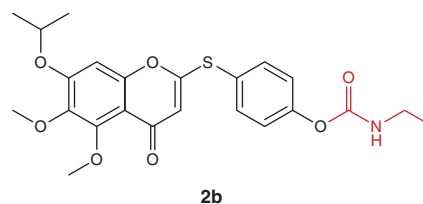


The mechanism of inclusion between β -cyclodextrins and enantiomers was investigated by molecular docking soft. The results suggested the difference of interaction energy for the side chain part was most likely responsible for enantiometric separation of adrenalin and its analogs by CE.

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Synthesis and Evaluation of Carbamate Prodrugs of a Phenolic Compound

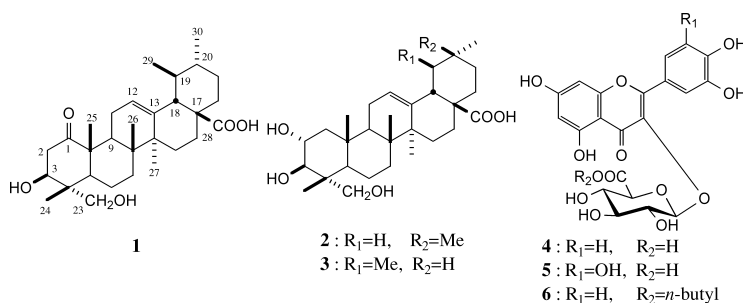
Y. Igarashi, E. Yanagisawa, T. Ohshima, S. Takeda, M. Aburada, and K. Miyamoto



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Triterpenes and Flavonol Glucuronides from *Oenothera cheiranthifolia*

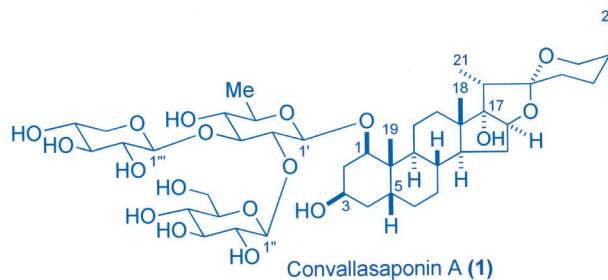
T. Nakanishi, Y. Inatomi, H. Murata, S. Ishida, Y. Fujino, K. Miura, Y. Yasuno, A. Inada, F. A. Lang, and J. Murata



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Convallasaponin A, a New 5 β -Spirostanol Triglycoside from the Rhizomes of *Convallaria majalis*

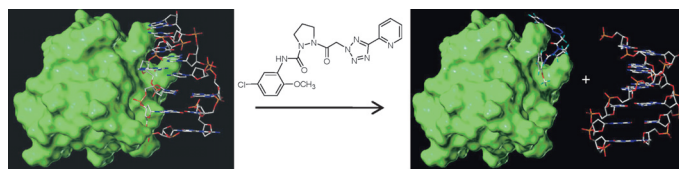
T. Higano, M. Kuroda, H. Sakagami, and Y. Mimaki



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Identification of Novel Ligands for the Z-DNA Binding Protein by Structure-Based Virtual Screening

Y.-G. Kim, K.-M. Thai, J. Song, K. K. Kim, and H.-J. Park

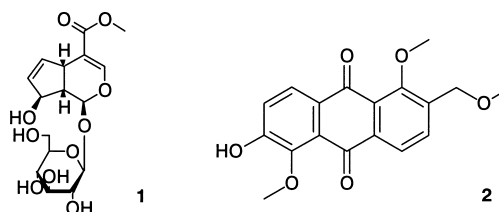


We describe the first discovery of small molecules that bind to the Z-DNA binding domain of human ADAR1 (Adenosine Deaminase Acting on RNA 1) by structure-based virtual screening of chemical database. The molecules identified in this study may serve as novel leads for the design of agents that inhibit biological functions of pathogenic viruses.

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New Constituents from the Leaves of *Morinda citrifolia*

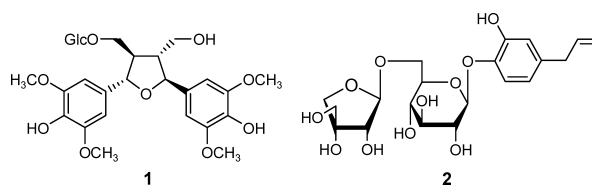
J. Takashima, Y. Ikeda, K. Komiyama, M. Hayashi, A. Kishida, and A. Ohsaki



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**Two New Glycosides from the Whole Plants of
Glechoma hederacea L.**

H. Yamauchi, R. Kakuda, Y. Yaoita,
K. Machida, and M. Kikuchi



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About the cover: Chondroitin sulfate (CS) is composed of a repeating disaccharide unit of the structure $[-4)\text{GlcA}(\beta\text{1-3})\text{GalNAc}(\beta\text{1-})_n$. The numbers and positions of the *O*-sulfo groups vary among CS samples obtained from different sources. It has been observed without exception that CS from mammals contains GalNAc with a higher percentage of sulfation at the C4-position than that at the C6-position, while CS from shark contains GalNAc with a lower percentage of sulfation at the C4-position than that at the C6-position. Twelve “health foods” products containing CS were purchased from the Japanese market and the origin of the CS was investigated by conducting disaccharide compositional analysis after enzymatic depolymerization and by $^1\text{H-NMR}$ spectroscopy. Nine of the 12 products had labels indicating that the origin of the CS was shark cartilage. However, two of them were found to contain mammalian CS. See the article by Sakai *et al.* on page 299 of this issue.