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Bioorganic & Medicinal Chemistry Letters Volume 19, Issue 24, 2009

Contents

ARTICLES

Incorporation of water-solubilizing groups in pyrazolopyrimidine mTOR inhibitors: Discovery of highly potent and selective analogs with improved human microsomal stability

pp 6830-6835

David J. Richard ^{*}, Jeroen C. Verheijen, Kevin Curran, Joshua Kaplan, Lourdes Toral-Barza, Irwin Hollander, Judy Lucas, Ker Yu, Arie Zask

A series of pyrazolopyrimidine mTOR inhibitors which contain basic amines or polar substituents attached to the 6-arylureidophenyl moiety demonstrate enhanced cellular potency and significantly improved stability towards human microsomes.

N^3 -Arylmalonamides: A new series of thieno[3,2-b]pyridine based inhibitors of c-Met and VEGFR2 tyrosine kinases

pp 6836-6839

Oscar Saavedra, Stephen Claridge *, Lijie Zhan, Franck Raeppel, Marie-Claude Granger, Stéphane Raeppel, Michael Mannion, Frédéric Gaudette, Nancy Zhou, Ljubomir Isakovic, Naomy Bernstein, Robert Déziel, Hannah Nguyen, Normand Beaulieu, Carole Beaulieu, Isabelle Dupont, James Wang, A. Robert Macleod, Jeffrey M. Besterman, Arkadii Vaisburg

$$R^{1} = \begin{cases} S \\ N \end{cases}$$

A series of thieno[3,2-b] pyridine inhibitors of the receptor tyrosine kinases c-Met and VEGRF2, bearing the N^3 -arylmalonamides functionality, is described.

Tetrahydroquinoline derivatives as CRTH2 antagonists

pp 6840-6844

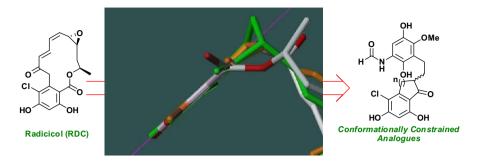
Jiwen Liu ^{*}, Yingcai Wang, Ying Sun, Derek Marshall, Shichang Miao, George Tonn, Penny Anders, Joel Tocker, H. Lucy Tang, Julio Medina

A series of tetrahydroquinoline-derived inhibitors of the CRTH2 receptor was discovered by a high throughput screen. Optimization of these compounds for potency and pharmacokinetic properties led to the discovery of potent and orally bioavailable CRTH2 antagonists.

Design, synthesis, and biological activity of bicyclic radester analogues as Hsp90 inhibitors

pp 6845-6850

Vinod D. Jadhav, Adam S. Duerfeldt, Brian S. J. Blagg



Fragment-based discovery of selective inhibitors of the *Mycobacterium tuberculosis* protein tyrosine phosphatase PtpA

pp 6851-6854

Katherine A. Rawls, P. Therese Lang, Jun Takeuchi, Shinichi Imamura, Tyler D. Baguley, Christoph Grundner *, Tom Alber *, Jonathan A. Ellman *

HO. F. F. HO. F. F. HO. P. HO. P. HO. P. HO. P. HO. P. HO. P. H. H. H. CF3

$$K_1 (\mu M) = 1.4 \pm 0.3$$
 $K_1 (\mu M) = 3.1 \pm 0.4$

The development of low μM inhibitors of the Mycobacterium tuberculosis phosphatase PtpA is reported.



Synthesis and biological evaluation of salicylic acid and N-acetyl-2-carboxybenzenesulfonamide regioisomers possessing a N-difluoromethyl-1,2-dihydropyrid-2-one pharmacophore: Dual inhibitors of cyclooxygenases and 5-lipoxygenase with anti-inflammatory activity

pp 6855-6861

Morshed A. Chowdhury, Khaled R. A. Abdellatif, Ying Dong, Dipankar Das, Gang Yu, Carlos A. Velázquez, Mavanur R. Suresh, Edward E. Knaus *

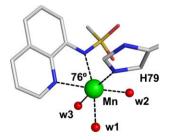
$$F_2HC-N$$

$$OH$$

$$F_2HC-N$$

Metal-mediated inhibition is a viable approach for inhibiting cellular methionine aminopeptidase Sergio C. Chai, $Oi-Zhuang\ Ye^*$

pp 6862-6864



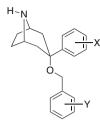
MetAP enzyme inhibition, IC₅₀ 0.14 μM *E. coli* cell growth inhibition, IC₅₀ 38 μM



Synthesis and monoamine transporter affinity of 3α -arylmethoxy- 3β -arylnortropanes

pp 6865-6868

Harneet Kaur, Sari Izenwasser, Abha Verma, Dean Wade, Amy Housman, Edwin D. Stevens, David L. Mobley, Mark L. Trudell *



The design, synthesis and monoamine transporter affinity of a series of nortropane derivatives is described.



Development of photoaffinity probes for γ -secretase equipped with a nitrobenzenesulfonamide-type cleavable linker

pp 6869-6871

Satoshi Yokoshima, Yuzo Abe, Naoto Watanabe, Yoichi Kita, Toshiyuki Kan, Takeshi Iwatsubo, Taisuke Tomita, Tohru Fukuyama *

$Structure-activity\ relationships\ of\ 6-(2,6-dichlorophenyl)-8-methyl-2-(phenylamino)pyrido \ [2,3-d] pyrimidin-7-ones:\ Toward\ selective\ Abl\ inhibitors$

pp 6872-6876

Christophe Antczak ^{*}, Darren R. Veach, Christina N. Ramirez, Maria A. Minchenko, David Shum, Paul A. Calder, Mark G. Frattini, Bayard Clarkson, Hakim Djaballah

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Exploration of O-spiroketal C-arylglucosides as novel and selective renal sodium-dependent glucose co-transporter 2 (SGLT2) inhibitors

pp 6877-6881

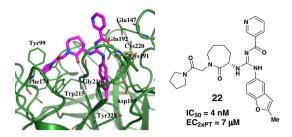
Binhua Lv ^{*}, Baihua Xu, Yan Feng, Kun Peng, Ge Xu, Jiyan Du, Lili Zhang, Wenbin Zhang, Ting Zhang, Liangcheng Zhu, Haifeng Ding, Zelin Sheng, Ajith Welihinda, Brian Seed, Yuanwei Chen ^{*}

The novel spiro[isobenzofuran-1,2'-pyran] structure is proved to be an effective scaffold for diversification of SGLT2 inhibitors and a number of compounds with single digit nanomolar potency and high selectivity have been synthesized.

Aroylguanidine-based factor Xa inhibitors: The discovery of BMS-344577

pp 6882-6889

Yan Shi *, Chi Li, Stephen P. O'Connor, Jing Zhang, Mengxiao Shi, Sharon N. Bisaha, Ying Wang, Doree Sitkoff, Andrew T. Pudzianowski, Christine Huang, Herbert E. Klei, Kevin Kish, Joseph Yanchunas Jr., Eddie C.-K. Liu, Karen S. Hartl, Steve M. Seiler, Thomas E. Steinbacher, William A. Schumacher, Karnail S. Atwal, Philip D. Stein



Hit to lead optimization of pyrazolo[1,5-a]pyrimidines as B-Raf kinase inhibitors

pp 6890-6892

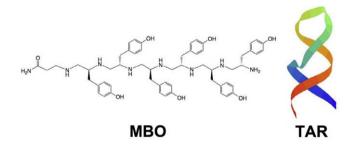
Ariamala Gopalsamy ^{*}, Greg Ciszewski, Mengxiao Shi, Dan Berger, Yongbo Hu, Frederick Lee, Larry Feldberg, Eileen Frommer, Steven Kim, Karen Collins, Donald Wojciechowicz, Robert Mallon

Structure guided design was utilized to optimize the pyrazolo[1,5-a]pyrimidine scaffold by introducing kinase hinge region interacting groups in the 2-position. This strategy led to the identification of lead compound **9** with enhanced enzyme and cellular potency, while maintaining good selectivity over a number of kinases.

Multivalent binding oligomers inhibit HIV Tat-TAR interaction critical for viral replication

pp 6893-6897

Deyun Wang, Jaclyn Iera, Heather Baker, Priscilla Hogan, Roger Ptak, Lu Yang, Tracy Hartman, Robert W. Buckheit Jr., Alexandre Desjardins, Ao Yang, Pascale Legault, Venkat Yedavalli, Kuan-Teh Jeang, Daniel H. Appella *

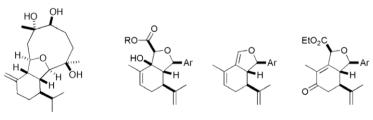




$Synthesis\ and\ anticancer\ activity\ of\ sclerophytin-inspired\ hydroisobenz of urans$

pp 6898-6901

T. David Bateman, Aarti L. Joshi, Kwangyul Moon, Elena N. Galitovskaya, Meenakshi Upreti, Timothy C. Chambers *, Matthias C. McIntosh *



sclerophytin A

Seco analogs of sclerophytin A prepared in three or four steps exhibit sub-micromolar growth inhibitory activity against the RPMI-8226 leukemia and HOP-92 non-small cell lung cancer cell lines.



Identification of novel agonists of the integrin CD11b/CD18

pp 6902-6906

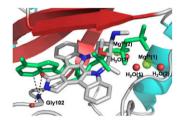
Mohd. Hafeez Faridi, Dony Maiguel, Constantinos J. Barth, Darren Stoub, Ruth Day, Stephan Schürer *, Vineet Gupta

Novel allosteric agonists of integrin CD11b/CD18 were identified. Initial SAR exploration and structural model of binding site are presented.

Structural insights into IKK\$\beta\$ inhibition by natural products staurosporine and quercetin

pp 6907-6910

Carolina M. Avila, Nelilma C. Romeiro, Carlos M. R. Sant'Anna, Eliezer J. Barreiro, Carlos A. M. Fraga



This work describes the structural basis of the IKK β inhibition by staurosporine and quercetin in ATP binding site.



Synthesis, spectroscopic properties and protein labeling of water soluble 3,5-disubstituted boron dipyrromethenes

pp 6911-6913

Özlem Dilek, Susan L. Bane

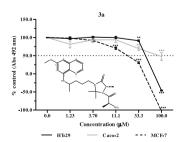
$$\begin{array}{c} R^{1} = R^{2} = SCH_{2}COOH \\ R^{1} = SCH_{2}COOH, R^{2} = CI \\ R^{1} = R^{2} = SCH_{2}COO \\ R^{2} = SCH_{2}COO \\ R^{3} = SCH_{2}COO \\ R^{4} = SCH_{2}COO \\ R^{5} = SC$$



Anti-tumoral activity of imidazoquines, a new class of antimalarials derived from primaquine

pp 6914-6917

Iva Fernandes, Nuno Vale, Victor de Freitas, Rui Moreira, Nuno Mateus, Paula Gomes



The anti-proliferative activity of primaquine, and related quinolinic antimalarials, against three human tumoral cell lines is reported.



Design, synthesis and evaluation of novel oxazaphosphorine prodrugs of 9-(2-phosphonomethoxyethyl)adenine (PMEA, adefovir) as potent HBV inhibitors

pp 6918-6921

Peng Lu, Jiangxia Liu, Yuya Wang, Xiaoyan Chen, Yushe Yang *, Ruyun Ji

A series of novel oxazaphosphorine prodrugs of PMEA is disclosed. L-valine methyl ester (7c) demonstrated highly potent anti-HBV activity, excellent stability in human plasma and release of the parent compound PMEA in human microsomes.

COX, LOX and platelet aggregation inhibitory properties of Lauraceae neolignans

pp 6922-6925

Ericsson David Coy*, Luis Enrique Cuca*, Michael Sefkow

Inhibition of COX-1, COX-2, 5-LOX and agonist-induced platelet aggregation for 26 neolignans is reported.

New small molecule inhibitors of hepatitis C virus

pp 6926-6930

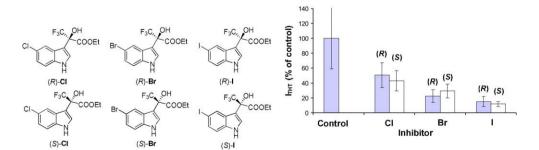
Wanguo Wei, Cuifang Cai, Smitha Kota, Virginia Takahashi, Feng Ni, A. Donny Strosberg *, John K. Snyder *

$$^{\rm OMe}$$
 $^{\rm OMe}$ $^{\rm OMe}$

Effect of chirality of small molecule organofluorine inhibitors of amyloid self-assembly on inhibitor potency

pp 6931-6934

Abha Sood, Mohammed Abid, Samson Hailemichael, Michelle Foster, Béla Török, Marianna Török



1-(2-Aminoethyl)-3-(arylsulfonyl)-1H-pyrrolopyridines are 5-HT₆ receptor ligands

pp 6935-6938

Ronald C. Bernotas *, Schuyler A. Antane, Steven E. Lenicek, Simon N. Haydar, Albert J. Robichaud, Boyd L. Harrison, Guo Ming Zhang, Deborah Smith, Joseph Coupet, Lee E. Schechter

Pyrrolopyridines 4, 5, and 6 have been prepared and tested as 5-HT₆ ligands.

Synthesis and biological evaluation of 2-amino-7,7-dimethyl 4-substituted-5-oxo-1-(3,4,5-trimethoxy)-1,4,5,6,7,8-hexahydro-quinoline-3-carbonitrile derivatives as potential cytotoxic agents

pp 6939-6942

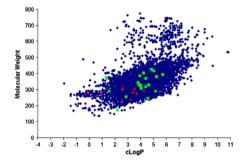
Saleh I. Alqasoumi, Areej M. Al-Taweel, Ahmed M. Alafeefy, Mostafa M. Hamed, Eman Noaman, Mostafa M. Ghorab *



Physicochemical property profiles of marketed drugs, clinical candidates and bioactive compounds

pp 6943-6947

Christian Tyrchan, Niklas Blomberg, Ola Engkvist, Thierry Kogej, Sorel Muresan





Synthesis and antitumor-evaluation of cyclopropyl-containing combretastatin analogs

pp 6948-6951

Rita Fürst, István Zupkó, Ágnes Berényi, Gerhard F. Ecker, Uwe Rinner

N-Bridged bicyclic sulfonamides as inhibitors of γ -secretase

pp 6952-6956

Simeon Bowers ^{*}, Gary D. Probst, Anh P. Truong, Roy K. Hom, Andrei W. Konradi, Hing L. Sham, Albert W. Garofalo, Karina Wong, Erich Goldbach, Kevin P. Quinn, John-Michael Sauer, William Wallace, Lan Nguyen, Susanna S. Hemphill, Michael P. Bova, Guriqbal S. Basi

The structural modification of a series of [3.3.1] bicyclic sulfonamide based γ -secretase inhibitors is described. Appropriate substitution on the bicyclic scaffold provides a significant increase in the metabolic stability of the compounds resulting in an improved in vivo metabolic profile.

Novel pyrazolopyrimidines as highly potent B-Raf inhibitors

pp 6957-6961

Martin J. Di Grandi ^{*}, Dan M. Berger, Darrin W. Hopper, Chunchun Zhang, Minu Dutia, Alejandro L. Dunnick, Nancy Torres, Jeremy I. Levin, George Diamantidis, Christoph W. Zapf, Jonathan D. Bloom, YongBo Hu, Dennis Powell, Donald Wojciechowicz, Karen Collins, Eileen Frommer

A novel series of pyrazolo[1,5-a]pyrimidines bearing a 3-hydroxyphenyl group at C(3) and substituted tropanes at C(7) have been identified as potent B-Raf inhibitors. Exploration of alternative functional groups as a replacement for the C(3) phenol demonstrated indazole to be an effective isostere. Several compounds possessing substituted indazole residues, such as **4e**, **4p**, and **4r**, potently inhibited cell proliferation at submicromolar concentrations in the A375 and WM266 cell lines, and the latter two compounds also exhibited good therapeutic indices in cells.

Synthesis and evaluation of a thio analogue of duocarmycin SA

pp 6962-6965

Karen S. MacMillan, James P. Lajiness, Carlota Lopez Cara, Romeo Romagnoli, William M. Robertson, Inkyu Hwang, Pier Giovanni Baraldi ^{*}, Dale L. Boger ^{*}

MeO₂C
$$\sim$$
 NH \sim NH



Terpenoids. III: Synthesis and biological evaluation of 23-hydroxybetulinic acid derivatives as novel inhibitors of glycogen phosphorylase

pp 6966-6969

Peiqing Zhu, Yi Bi, Jinyi Xu *, Zan Li, Jun Liu, Luyong Zhang, Wencai Ye, Xiaoming Wu

A series of 23-hydroxybetulinic acid derivatives were prepared and evaluated as a new class of inhibitors of glycogen phosphorylase (GP), among which **12b** was the most potent GPa inhibitor (IC₅₀ = 3.5 μ M).

Cell-based optimization of novel benzamides as potential antimalarial leads

pp 6970-6974

Tao Wu, Advait Nagle, Tomoyo Sakata, Kerstin Henson, Rachel Borboa, Zhong Chen, Kelli Kuhen, David Plouffe, Elizabeth Winzeler, Francisco Adrian, Tove Tuntland, Jonathan Chang, Susan Simerson, Steven Howard, Jared Ek, John Isbell, Xianming Deng, Nathanael S. Gray, David C. Tully, Arnab K. Chatterjee *

$$\begin{array}{c} CI \\ N \\ N \\ N \\ CF_3 \end{array} \longrightarrow \begin{array}{c} CI \\ N \\ CF_3 \end{array}$$

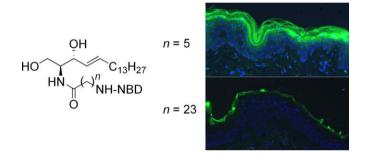
human kinase inhibitor

selective antimalarial agent

Synthesis of fluorescent C_{24} -ceramide: Evidence for acyl chain length dependent differences in penetration of exogenous NBD-ceramides into human skin

pp 6975-6977

Jakub Novotný, Kateřina Pospěchová, Alexandr Hrabálek, Robert Čáp, Kateřina Vávrová ^{*}



(i)+

A bivalent ligand (KMN-21) antagonist for μ/κ heterodimeric opioid receptors

pp 6978-6980

Shijun Zhang, Ajay Yekkirala, Ye Tang, Philip S. Portoghese

A series of bivalent ligands containing κ - and μ -antagonist pharmacophores were designed and reported as chemical tools for studying κ - μ heterodimers.

Synthesis, stereochemistry and antimicrobial studies of novel oxime ethers of aza/diazabicycles

pp 6981-6985

Paramasivam Parthiban, Gopalakrishnan Aridoss, Paramasivam Rathika, Venkatachalam Ramkumar, Senthamaraikannan Kabilan *

Two series of heterobicyclic oxime ethers viz, 3-ABN-9-one and 3,7-DABN-9-one *O*-benzyloximes were synthesized and stereochemistry was established by their spectral and crystal studies. All the synthesized oxime ethers were screened against a set of pathogenic bacteria and fungi. From the results, structure-activity relationship was discussed.



NSAID-derived γ -secretase modulators. Part III: Membrane anchoring

pp 6986-6990

Stefanie Baumann, Nicole Höttecke, Robert Schubenel, Karlheinz Baumann, Boris Schmidt

The synthesis and activity data of N-substituted carbazole- and O-substituted fenofibrate-derived γ -secretase modulators are presented. Out of 19 screened compounds, seven exhibited promising activity against A β_{42} secretion at a low micromolar level. We suggest that the γ -secretase modulators interact with lys624 at the membrane interface and that the lipophilic substituent anchors the compound in the membrane.



Imidazo[1,2-a]pyrazine diaryl ureas: Inhibitors of the receptor tyrosine kinase EphB4

pp 6991-6995

Scott A. Mitchell *, Mihaela Diana Danca, Peter A. Blomgren, James W. Darrow, Kevin S. Currie, Jeffrey E. Kropf, Seung H. Lee, Steven L. Gallion, Jin-Ming Xiong, Douglas A. Pippin, Robert W. DeSimone, David R. Brittelli, David C. Eustice, Aaron Bourret, Melissa Hill-Drzewi, Patricia M. Maciejewski, Lisa L. Elkin

The identification of imidazo[1,2-a]pyrazine diarylureas as potent inhibitors of the receptor tyrosine kinaseEphB4 is reported.

Synthesis of 9-anilinoacridine triazines as new class of hybrid antimalarial agents

pp 6996-6999

Ashok Kumar, Kumkum Srivastava, S. Raja Kumar, S. K. Puri, Prem M. S. Chauhan

A series of new class of hybrid 9-anilinoacridine triazines were synthesized and screened in vitro for their antimalarial activity against CQ-sensitive 3D7 strain of *Plasmodium falciparum*. The compounds **13** and **29** displayed >96.59% and 98.73% suppression, respectively, orally against N-67 strain of *Plasmodium yoelii* in swiss mice at dose 100 mg/kg for four days.

Synthesis and antimycobacterial evaluation of novel 5,6-dimethoxy-1-oxo-2,5-dihydro-1*H*-2-indenyl-5,4-substituted phenyl methanone analogues

pp 7000-7002

Mohamed Ashraf Ali ^{*}, Jeyabalan Govinda Samy, Elumalai Manogaran, Velmurugan Sellappan, Mohamed Zaheen Hasan, Mohamed Jawed Ahsan, Suresh Pandian, Mohammad ShaharYar

5_a.5_n

In present investigation, a series of substituted phenyl-5,6-dimethoxy-1-oxo-2,5-dihydro-1H-2-indenylmethanone analogues were synthesized and were evaluated for antimycobacterial activity against Mycobacterium tuberculosis H_{57} Rv and INH resistant M. tuberculosis. All the newly synthesized compounds were showing moderate to high inhibitory activities, with compound 5,6-dimethoxy-1-oxo-2,5-dihydro-1H-2-indenyl-4-fluorophenylmethanone (**5g**) produced was found to be the most promising compounds active against M. tuberculosis H_{57} Rv and isoniazid (INH) resistant M. tuberculosis with Minimum inhibitory concentration 0.10 and 0.10 μ M.

Evaluation and optimization of antifibrotic activity of cinnamoyl anthranilates

pp 7003-7006

Steven C. Zammit, Alison J. Cox, Renae M. Gow, Yuan Zhang, Richard E. Gilbert, Henry Krum, Darren J. Kelly *, Spencer J. Williams *

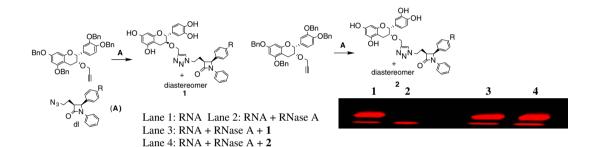
A panel of cinnamoyl anthranilates were investigated for their antifibrotic activity through their ability to reduce collagen formation stimulated by the cytokine transforming growth factor-β. The most active compound was shown to reduce albuminuria in a hypertensive rat model of progressive type II diabetes.



Design, synthesis and bioactivity of catechin/epicatechin and 2-azetidinone derived chimeric molecules

pp 7007-7010

Basab Roy, Arindam Chakraborty, Sudip K. Ghosh, Amit Basak





*Corresponding author

(1)+ Supplementary data available via ScienceDirect

COVER

MW versus cLogP for drugs (red), clinical candidates (green) and bioactive compounds (blue) for Cannabinoid receptor CNR1. [Tyrchan, C.; Blomberg, N.; Engkvist, O.; Kogej, T.; Muresan, S. *Bioorg. Med. Chem. Lett.* **2009**, *19*, 6943.]

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