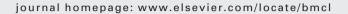


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### **Bioorganic & Medicinal Chemistry Letters**





### Bioorganic & Medicinal Chemistry Letters Vol. 18, No. 15, 2008

### **Contents**

#### ARTICLES

Structural modifications of N-arylamide oxadiazoles: Identification of N-arylpiperidine oxadiazoles as potent and selective agonists of  $CB_2$ 

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pp 4275-4277

Erin F. DiMauro\*, John L. Buchanan, Alan Cheng, Renee Emkey, Stephen A. Hitchcock, Liyue Huang, Ming Y. Huang, Brett Janosky, Josie H. Lee, Xingwen Li, Matthew W. Martin, Susan A. Tomlinson, Ryan D. White, Xiao Mei Zheng, Vinod F. Patel,

Robert T. Fremeau Jr.

NH CI P

hCB<sub>2</sub> EC<sub>50</sub> = 0.002  $\mu$ M (E<sub>max</sub> = 115%) hCB<sub>1</sub> EC<sub>50</sub> = 0.403  $\mu$ M (E<sub>max</sub> = 51%)

Rat IV CL = 5.7 L/h/kg

bCP EC = 0.007 ..M (E = 130%)

hCB<sub>2</sub> EC<sub>50</sub> = 0.007  $\mu$ M (E<sub>max</sub> = 120%) hCB<sub>1</sub> EC<sub>50</sub> = 1.43  $\mu$ M (E<sub>max</sub> = 55%) Rat IV CL = 0.039 L/h/kg

#### Cytotoxic calanquinone A from Calanthe arisanensis and its first total synthesis

Chia-Lin Lee, Kyoko Nakagawa-Goto, Donglei Yu, Yi-Nan Liu, Kenneth F. Bastow, Susan L. Morris-Natschke, Fang-Rong Chang, Yang-Chang Wu\*, Kuo-Hsiung Lee\*

OCH<sub>3</sub>

ОH

OCH<sub>3</sub>

pp 4278-4281

#### Design and optimization of potent, selective antagonists of Oxytocin

Watson

1, Calanquinone A

Alan Brown\*, Lindsay Brown, Dave Ellis, Nicholas Puhalo, Chris R. Smith, Olga Wallace, Lesa Watson

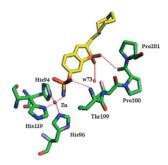
Ar N H/OMe

Pharmacophoric overlap of a high throughput screening hit and published OT antagonists followed by subsequent optimization led to a series of potent, selective Oxytocin antagonists (**X**). Several of these analogues showed oral bioavailability in vivo.

# Carbonic anhydrase inhibitors. Interaction of the antitumor sulfamate EMD 486019 with twelve mammalian carbonic anhydrase isoforms: Kinetic and X-ray crystallographic studies

pp 4282-4286

Claudia Temperini, Alessio Innocenti, Andrea Scozzafava, Claudiu T. Supuran \*



#### Structure-activity relationship studies on vitamin D lactam derivatives as vitamin D receptor antagonist

pp 4287-4290

Kaori Cho, Fumito Uneuchi, Yuko Kato-Nakamura, Jun-ichi Namekawa, Seiichi Ishizuka, Kazuya Takenouchi, Kazuo Nagasawa

(23S,25S)-DLAM-1P-3,5(OEt)<sub>2</sub>

#### Synthesis of two persistent fluorinated tetrathiatriarylmethyl (TAM) radicals for biomedical EPR applications

pp 4291-4293

Benoît Driesschaert, Nicolas Charlier, Bernard Gallez, Jacqueline Marchand-Brynaert \*

The synthesis of two new persistent fluorinated tetrathiatriarylmethyl (TAM) radicals (F15T-03 and F45T-03) in two steps from ester precursor 1 (95% and 66%, respectively), and preliminary evaluation of their EPR properties are reported.

# Structure–activity relationships of 2-aryl-1*H*-indole inhibitors of the NorA efflux pump in *Staphylococcus aureus*

pp 4294-4297

Joseph I. Ambrus, Michael J. Kelso, John B. Bremner\*, Anthony R. Ball, Gabriele Casadei, Kim Lewis

$$R^1$$
 $R^2$ 
 $R^3$ 

Three new potent indole NorA pump inhibitors and an antibacterial lead compound for Staphylococcus aureus are described.

#### Discovery of piperidine-aryl urea-based stearoyl-CoA desaturase 1 inhibitors

pp 4298-4302

Zhili Xin\*, Hongyu Zhao, Michael D. Serby, Bo Liu, Mei Liu, Bruce G. Szczepankiewicz, Lissa T. J. Nelson, Harriet T. Smith, Tom S. Suhar, Rich S. Janis, Ning Cao, Heidi S. Camp, Christine A. Collins, Hing L. Sham, Teresa K. Surowy, Gang Liu

**4c**  $IC_{50} < 4 \text{ nM (mSCD1)}$ 

The discovery of potent, selective, orally bioavailable SCD1 inhibitors is reported.



#### Carbonic anhydrase activators: Activation of the human cytosolic isozyme III and membrane-associated isoform IV with amino acids and amines

pp 4303-4307

Daniela Vullo, Isao Nishimori, Andrea Scozzafava, Claudiu T. Supuran\*

### N-Benzyl-N-(pyrrolidin-3-yl)carboxamides as a new class of selective dual serotonin/noradrenaline reuptake inhibitors

pp 4308-4311

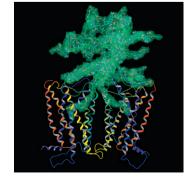
Florian Wakenhut\*, Paul V. Fish, M. Jonathan Fray, Ian Gurrell, James E. Mills, Alan Stobie, Gavin A. Whitlock

The structure-activity relationship and the synthesis of novel N-benzyl-N-(pyrrolidin-3-yl)carboxamides as dual serotonin (5-HT) and noradrenaline (NA) monoamine reuptake inhibitors are described. Compounds such as 18 exhibited dual 5-HT and NA-reuptake inhibition, good selectivity over dopamine (DA)-reuptake inhibition and drug-like physicochemical properties consistent with CNS target space. Compound 18 was selected for further preclinical evaluation.

### Molecular modeling of a PAMAM-CGS21680 dendrimer bound to an A2A adenosine receptor homodimer

pp 4312-4315

Andrei A. Ivanov, Kenneth A. Jacobson





#### 4-(1,3-Thiazol-2-yl)morpholine derivatives as inhibitors of phosphoinositide 3-kinase

pp 4316-4320

Rikki Alexander\*, Ahrani Balasundaram, Mark Batchelor, Daniel Brookings, Karen Crépy, Tom Crabbe, Marie-France Deltent, Frank Driessens, Andrew Gill, Sue Harris, Gillian Hutchinson, Claire Kulisa, Mark Merriman, Prakash Mistry, Ted Parton, James Turner, Ian Whitcombe, Sara Wright

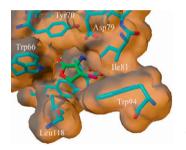
4-(1,3-Thiazol-2-yl)morpholine derivatives have been identified as potent and selective inhibitors of phosphoinositide 3-kinase, compound 18 is shown to demonstrate the utility of this class of compounds in xenograft models of tumor growth.

### *N*-Acyl-3-amino-5*H*-furanone derivatives as new inhibitors of LuxR-dependent quorum sensing: Synthesis, biological evaluation and binding mode study

pp 4321-4324

Jane Estephane, Julien Dauvergne, Laurent Soulère\*, Sylvie Reverchon, Yves Queneau, Alain Doutheau\*

Amongst some *N*-acyl-3-amino-5*H*-furanone derivatives tested as LuxR-dependent quorum sensing inhibitors, 4-halogenated compounds were found to be the most active. Molecular modelling showed that the presence of the halogen atom could enhance the fitting of the lactone ring through specific interactions with conserved or conservatively replaceable residues in the LuxR protein family.

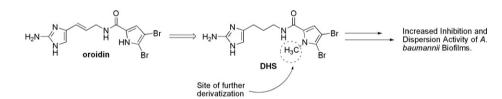




### Effects of N-pyrrole substitution on the anti-biofilm activities of oroidin derivatives against Acinetobacter baumannii

pp 4325-4327

Justin J. Richards, Catherine S. Reed, Christian Melander \*



Modification of the alkyl substituent on the pyrrole-based nitrogen of the oroidin template has resulted in derivatives that display more potent anti-biofilm activities than the previous lead compound, DHS.



# N-(thiazol-2-yl)-2-thiophene carboxamide derivatives as Abl inhibitors identified by a pharmacophore-based database screening of commercially available compounds

pp 4328-4331

Fabrizio Manetti, Federico Falchi, Emmanuele Crespan, Silvia Schenone, Giovanni Maga, Maurizio Botta



Affinity optimization of thiazole or thiadiazole Abi inhibitors. From 2-benzamido thia(dia)zole compounds to N-(thiazol-2-yl)-2-thiophene carboxamide derivatives.

#### Synthesis of hydantoin analogues of (2S,3R,4S)-4-hydroxyisoleucine with insulinotropic properties

pp 4332-4335

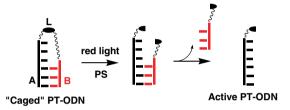
Didier Sergent, Qian Wang, N. André Sasaki, Jamal Ouazzani\*

HO, 
$$CO_2Et$$
 RO,  $CHO$  KCN RO,  $CH_3$  H<sub>3</sub>C  $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$ 

### Red light-activated phosphorothioate oligodeoxyribonucleotides

pp 4336-4338

Alexandru Rotaru, János Kovács, Andriy Mokhir\*



'Caged' phosphothioate oligodeoxyribonucleotides are reported. These compounds do not bind complementary nucleic acids in the dark. Upon irradiation with red light in the presence of chlorine e6 they become efficient binders.

#### Conformationally constrained farnesoid X receptor (FXR) agonists: Naphthoic acid-based analogs of GW 4064

pp 4339-4343

Adwoa Akwabi-Ameyaw, Jonathan Y. Bass, Richard D. Caldwell, Justin A. Caravella, Lihong Chen, Katrina L. Creech, David N. Deaton\*, Stacey A. Jones, Istvan Kaldor, Yaping Liu, Kevin P. Madauss, Harry B. Marr, Robert B. McFadyen, Aaron B. Miller, Frank Navas III, Derek J. Parks, Paul K. Spearing, Dan Todd, Shawn P. Williams, G. Bruce Wisely

Starting from the known FXR agonist GW 4064 **1a**, a series of stilbene replacements were prepared. The 6-substituted 1-naphthoic acid **1b** was an equipotent FXR agonist with improved developability parameters relative to **1a**. Analog **1b** also reduced the severity of cholestasis in the ANIT acute cholestatic rat model.

### Synthesis and evaluation of heteroaryl-ketone derivatives as a novel class of VEGFR-2 inhibitors

pp 4344-4347

Eugene L. Piatnitski Chekler\*, Reeti Katoch-Rouse, Alexander S. Kiselyov, Dan Sherman, Xiaohu Ouyang, Ki Kim, Ying Wang, Yaron R. Hadari, Jacqueline F. Doody

X = N or C

A novel series of potent heteroaryl-ketone derivatives active against VEGFR-2 kinase is described. The best compounds were demonstrated to be inactive against a panel of tyrosine and serine/threonine kinases with the exception of VEGFR-1 kinase. Selected representatives displayed acceptable exposure levels when administered orally to mice.



#### Discovery of triazolinone non-nucleoside inhibitors of HIV reverse transcriptase

pp 4348-4351

Zachary K. Sweeney<sup>\*</sup>, Sahaja Acharya, Andrew Briggs, James P. Dunn, Todd R. Elworthy, Jennifer Fretland, Anthony M. Giannetti, Gabrielle Heilek, Yu Li, Ann C. Kaiser, Michael Martin, Y. David Saito, Mark Smith, Judy M. Suh, Steven Swallow, Jeffrey Wu, Julie Q. Hang, Amy S. Zhou, Klaus Klumpp

 $EC_{50}$  (WT) = 2 nM PO (2 mg/kg): AUC = 38.4  $\mu$ M\*h F = 74%

Novel diaryl ether HIV-1 non-nucleoside reverse transcriptase inhibitors (NNRTIs) were prepared. Triazolinone compounds that strongly inhibit wild-type and NNRTI-resistant viruses and display excellent pharmacokinetic properties were identified.

#### Discovery and optimization of pyridazinone non-nucleoside inhibitors of HIV-1 reverse transcriptase

pp 4352-4354

Zachary K. Sweeney<sup>\*</sup>, James P. Dunn, Yu Li, Gabrielle Heilek, Pete Dunten, Todd R. Elworthy, Xiaochun Han, Seth F. Harris, Donald R. Hirschfeld, J. Heather Hogg, Walter Huber, Ann C. Kaiser, Denis J. Kertesz, Woongki Kim, Taraneh Mirzadegan, Michael G. Roepel, Y. David Saito, Tania M. P. C. Silva, Steven Swallow, Jahari L. Tracy, Armando Villasenor, Harit Vora, Amy S. Zhou, Klaus Klumpp

A number of pyridazinones were evaluated as HIV-1 non-nucleoside reverse transcriptase inhibitors (NNRTIs). These compounds strongly inhibited the wild-type virus and NNRTI-resistant viruses.

# Derivatives of (3S)-N-(biphenyl-2-ylmethyl)pyrrolidin-3-amine as selective noradrenaline reuptake inhibitors: Reducing P-gp mediated efflux by modulation of H-bond acceptor capacity

pp 4355-4359

Paul V. Fish\*, Nancy S. Barta, David L. F. Gray, Thomas Ryckmans, Alan Stobie, Florian Wakenhut, Gavin A. Whitlock

Carboxamide **9e**, carbamate **11b** and sulfonamide **13a** were identified as potent NRIs with excellent selectivity over SRI and DRI, good in vitro metabolic stability and weak CYP inhibition. Carbamate **11b** demonstrated superior transit performance in MDCK-mdr1 cell lines with minimal P-gp efflux, which was attributed to reduced HBA capacity. Evaluation in vivo, in rat microdialysis experiments, showed **11b** increased NA levels by 400% over pre-drug levels confirming good CNS penetration.

#### Pyrrolidinyl pyridone and pyrazinone analogues as potent inhibitors of prolyl oligopeptidase (POP)

pp 4360-4363

Curt D. Haffner\*, Caroline J. Diaz, Aaron B. Miller, Robert A. Reid, Kevin P. Madauss, Annie Hassell, Mary H. Hanlon, David J. T. Porter, J. David Becherer, Luke H. Carter

We report the synthesis and in vitro activity of a series of novel pyrrolidinyl pyridones and pyrazinones as potent inhibitors of prolyl oligopeptidase (POP). Within this series, compound **39** was co-crystallized within the catalytic site of a human chimeric POP protein which provided a more detailed understanding of how these inhibitors interacted with key residues within the catalytic pocket.

#### Successful kinase bypass with new acyclovir phosphoramidate prodrugs

pp 4364-4367

Christopher McGuigan\*, Marco Derudas, Joachim J. Bugert, Graciela Andrei, Robert Snoeck, Jan Balzarini

Low or sub-µM versus HSV-1 and -2 and VZV. Retain full activity versus thymidine kinase mutants proving intracellular phosphate delivery.

#### Exploring 9-benzyl purines as inhibitors of glutamate racemase (Murl) in Gram-positive bacteria

pp 4368-4372

Bolin Geng\*, Gloria Breault, Janelle Comita-Prevoir, Randy Petrichko, Charles Eyermann, Tomas Lundqvist, Peter Doig, Elise Gorseth, Brian Noonan

An early SAR study of a screening hit series has generated a series of 9-benzyl purines as inhibitors of bacterial glutamate racemase (MurI) with micromolar enzyme potency and improved physical properties. X-ray co-crystal EI structures were obtained.

#### The identification of potent, selective and CNS penetrant furan-based inhibitors of B-Raf kinase

pp 4373-4376

Andrew K. Takle\*, Mark J. Bamford, Susannah Davies, Robert P. Davis, David K. Dean, Alessandra Gaiba, Elaine A. Irving, Frank D. King, Antoinette Naylor, Christopher A. Parr, Alison M. Ray, Alastair D. Reith, Beverley B. Smith, Penelope C. Staton, Jon G. A. Steadman, Tania O. Stean, David M. Wilson

Modification of the potent imidazole-based B-Raf inhibitor SB-590885 resulted in the identification of a series of furan-based derivatives with enhanced CNS penetration. One such compound, SB-699393 (17), was examined in vivo to challenge the hypothesis that selective B-Raf inhibitors may be of value in the treatment of stroke.

# Refinement of histamine H3 ligands pharmacophore model leads to a new class of potent and selective naphthalene inverse agonists

pp 4377-4379

Olivier Roche, Matthias Nettekoven\*, Walter Vifian, Rosa Maria Rodriguez Sarmiento



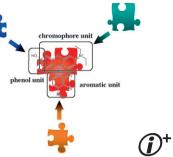
The refined histamine H3 ligand pharmacophore model guided successfully the selection process towards the identification of new, potent and selective naphthalene inverse agonists.

# Design and synthesis of regioisomerically pure unsymmetrical xanthene derivatives for staining live cells and their photochemical properties

pp 4380-4384

Shinichiro Kamino, Hayato Ichikawa, Shun-ichi Wada, Yuka Horio, Yoshihide Usami, Takako Yamaguchi, Toshiki Koda, Aki Harada, Kazusa Shimanuki, Masao Arimoto, Mitsunobu Doi, Yoshikazu Fujita\*

We show here the synthesis of regioisomerically pure unsymmetrical xanthene derivatives by combining three units, just like pieces of a jigsaw puzzle.



#### Synthesis and antitumor activity of cyclodepsipeptide zygosporamide and its analogues

pp 4385-4387

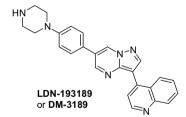
You Wang, Feiran Zhang, Yihua Zhang, Jun O. Liu\*, Dawei Ma\*

zygosporamide

#### Structure-activity relationship study of bone morphogenetic protein (BMP) signaling inhibitors

pp 4388-4392

Gregory D. Cuny\*, Paul B. Yu, Joydev K. Laha, Xuechao Xing, Ji-Feng Liu, Carol S. Lai, Donna Y. Deng, Chetana Sachidanandan, Kenneth D. Bloch, Randall T. Peterson



### (i)+

#### Discovery of imidazole carboxamides as potent and selective CCK1R agonists

pp 4393-4396

Cheng Zhu\*, Alexa R. Hansen, Thomas Bateman, Zhesheng Chen, Tom G. Holt, James A. Hubert, Bindhu V. Karanam, Susan J. Lee, Jie Pan, Su Qian, Vijay B. G. Reddy, Marc L. Reitman, Alison M. Strack, Vincent Tong, Drew T. Weingarth, Michael S. Wolff, Doug J. MacNeil, Ann E. Weber, Joseph L. Duffy, Scott D. Edmondson

The discovery and optimization of a novel class of 1,2-diaryl imidazole carboxamides as CCK1R agonists are reported. Compound 44 exhibited excellent lean mouse overnight food intake reduction.



#### Synthesis and biological evaluation of a focused library of beauveriolides

pp 4397-4400

Kenichiro Nagai, Takayuki Doi, Taichi Ohshiro, Toshiaki Sunazuka, Hiroshi Tomoda, Takashi Takahashi, Satoshi Ōmura\*

A library of beauveriolide analogues focusing on L-Ala and p-allo-lle of beauveriolide III (1b) was synthesized by combinatorial synthesis and their inhibitory activity of CE synthesis in macrophage was tested. Cyclic compounds  $7\{1,3,2\}$ ,  $7\{2,3,1\}$ , and  $7\{2,3,2\}$  were 20 times more potent than 1b.

#### Benzodiazepine ligands can act as allosteric modulators of the Type 1 cholecystokinin receptor

pp 4401-4404

Fan Gao, Patrick M. Sexton, Arthur Christopoulos, Laurence J. Miller\*

Small molecule benzodiazepine ligands are allosteric modulators of the CCK<sub>1</sub> receptor.

### Sialyl $\alpha(2 \to 3)$ lactose clusters using carbosilane dendrimer core scaffolds as influenza hemagglutinin blockers

pp 4405-4408

Hiroyuki Oka, Tomotsune Onaga, Tetsuo Koyama, Chao-Tan Guo, Yasuo Suzuki, Yasuaki Esumi, Ken Hatano, Daiyo Terunuma, Koji Matsuoka\*

### $Synthesis\ and\ anti-inflammatory\ activity\ of\ 2-(2-aroylaroxy)-4, 6-dimethoxy\ pyrimidines$

pp 4409-4412

OCH<sub>3</sub>

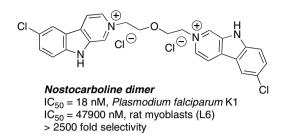
T. D. Venu, S. A. Khanum, Aiysha Firdouse, B. K. Manuprasad, Sheena Shashikanth\*, Riyaz Mohamed, Bannikuppe Sannanaik Vishwanth

The newly synthesized compounds 2-(2-aroylaroxy)-4, 6-dimethoxy pyrimidines 7a-f were screened for their anti-inflammatory activity and compared with standard drugs.

#### Potent and selective antiplasmodial activity of the cyanobacterial alkaloid nostocarboline and its dimers

pp 4413-4415

Damien Barbaras, Marcel Kaiser, Reto Brun, Karl Gademann\*

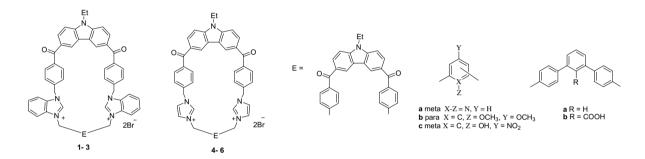




#### Synthesis of some novel imidazole-based dicationic carbazolophanes as potential antibacterials

pp 4416-4419

Perumal Rajakumar\*, Karuppannan Sekar, Vellasamy Shanmugaiah, Narayanasamy Mathivanan



#### 2-Alkenylthieno[2,3-b]pyridine-5-carbonitriles: Potent and selective inhibitors of PKC0

pp 4420-4423

L. Nathan Tumey\*, Diane H. Boschelli, Julie Lee, Divya Chaudhary

PKCθ = 3.8 nM PKCα, PKCβ, PKCδ, PKCε, PKCη, PKCζ > 1300 nM

A series of 2-alkenylamide thieno[2,3-b]pyridine inhibitors of PKC0 is described. SAR studies led to compound 8 which has excellent selectivity over a variety of PKC isoforms.

### Synthesis and evaluation of $\alpha,\alpha'$ -disubstituted phenylacetate derivatives for T-type calcium channel blockers

pp 4424-4427

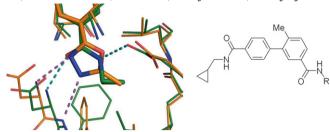
Hyung Kook Lee, Yun Suk Lee, Eun Joo Roh, Hyewhon Rhim, Jae Yeol Lee, Kye Jung Shin

Novel series of  $\alpha, \alpha'$ -disubstituted phenylacetate derivatives (**10** and **11**) based on pharmacophore mapping study were prepared and evaluated for T-type calcium channel ( $\alpha_{1G}$ ) blockers by patch-clamp method. Among them, compound **10e** (X = *p*-Br, Y = H, R = Me) showed higher potency than Mibefradil and competitive PK profiles for further in vivo assay.

#### Biphenyl amide p38 kinase inhibitors 3: Improvement of cellular and in vivo activity

pp 4428-4432

Richard Angell, Nicola M. Aston, Paul Bamborough, Jacky B. Buckton, Stuart Cockerill, Suzanne J. deBoeck, Chris D. Edwards, Duncan S. Holmes, Katherine L. Jones\*, Dramane I. Laine, Shila Patel, Penny A. Smee, Kathryn J. Smith, Don O. Somers, Ann L. Walker

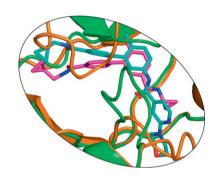


The biphenyl amides (BPAs) are a novel series of  $p38\alpha$  MAP kinase inhibitor. The optimisation of the series to give compounds that are potent in an vivo disease model are discussed. SAR is presented and rationalised with reference to the crystallographic binding mode.

#### Biphenyl amide p38 kinase inhibitors 4: DFG-in and DFG-out binding modes

pp 4433-4437

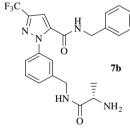
Richard M. Angell, Tony D. Angell, Paul Bamborough\*, Mark J. Bamford, Chun-wa Chung, Stuart G. Cockerill, Stephen S. Flack, Katherine L. Jones, Dramane I. Laine, Timothy Longstaff, Steve Ludbrook, Rosannah Pearson, Kathryn J. Smith, Penny A. Smee, Don O. Somers, Ann L. Walker



#### Pyrazole inhibitors of coactivator associated arginine methyltransferase 1 (CARM1)

pp 4438-4441

Ashok V. Purandare\*, Zhong Chen, Tram Huynh, Suhong Pang, Jieping Geng, Wayne Vaccaro, Michael A. Poss, Jonathan Oconnell, Kimberly Nowak, Lata Jayaraman



This study reports the identification and Hits to Leads optimization of inhibitors of coactivator associated arginine methyltransferase (CARM1). Compound **7b** is a potent, selective inhibitor of CARM1.



# Imidazole piperazines: SAR and development of a potent class of cyclin-dependent kinase inhibitors with a novel binding mode

pp 4442-4446

M. Raymond V. Finlay\*, David G. Acton, David M. Andrews, Andrew J. Barker, Michael Dennis, Eric Fisher, Mark A. Graham, Clive P. Green, David W. Heaton, Galith Karoutchi, Sarah A. Loddick, Rémy Morgentin, Andrew Roberts, Julie A. Tucker, Hazel M. Weir

N N N

2e MCF-7 IC50 = 0.17 uM

A series of CDK inhibitors with a novel binding mode and good activity in clinically relevant disease models is reported.

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\*Corresponding author

\*\* Supplementary data available via ScienceDirect

#### COVER

Overlay of high resolution co-crystal structures of *R*-**22**-ADP (cyan) and **1**-ADP (green) bound in an allosteric binding site of the mitotic kinesin KSP. [Roecker, A. J.; Coleman, P. J.; Mercer, S. P.; Schreier, J. D.; Buser, C. A.; Walsh, E. S.; Hamilton, K.; Lobell, R. B.; Tao, W.; Diehl, R. E.; South, V. J.; Davide, J. P.; Kohl, N. E.; Yan, Y.; Kuo, L. C.; Li, C.; Fernandez-Metzler, C.; Mahan, E. A.; Prueksaritanont, T.; Hartman, G. D. *Bioorg. Med. Chem. Lett.* **2007**, *17*, 5677.]

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