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Graphical Abstracts/Bioorganic Chemistry 82 (2019) ii-xiv

Unusual cadinane-type sesquiterpene glycosides with α-glucosidase inhibitory activities from the fruit of *Cornus officinalis* Sieb. et Zuuc.

Bioorganic Chemistry 82 (2018) pp. 1–5

Jun He[a,1], Jie-kun Xu[b,1], Xue-ge Pan[a,b], Xian-sheng Ye[a,b], Pin-yi Gao[c], Yu Yan[a], Chun-yang Xu[d], Gui-fen Qiang[d], Guan-hua Du[d], Yung-Chi Cheng[e], Wei-ku Zhang[a,*]

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[c]College of Pharmaceutical and Biotechnology Engineering, Institute of Functional Molecules, Shenyang University of Chemical Technology, Shenyang 110142, People's Republic of China
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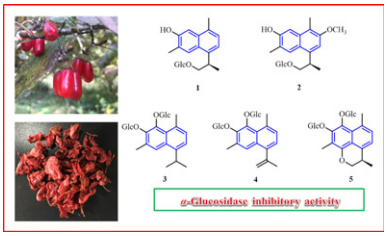
[e]Department of Pharmacology, School of Medicine, Yale University, New Haven, CT 06520, USA



Acridine-based (thio)semicarbazones and hydrazones: Synthesis, *in vitro* urease inhibition, molecular docking and *in-silico* ADME evaluation

Bioorganic Chemistry 82 (2018) pp. 6–16

Ibanga Okon Isaac[a], Mariya al-Rashida[b], Shafiq Ur Rahman[c], Rima D. Alharthy[d], Asnuzilawati Asari[e], Abdul Hameed[a,*], Khalid Mohammed Khan[a,f], Jamshed Iqbal[c,*]

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[c]Center for Advanced Drug Research, COMSATS Institute of Information Technology, Abbottabad 22060, Pakistan
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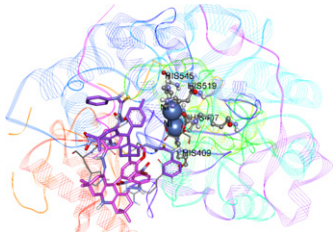

How the surface functionalized nanoparticles affect conformation and activity of proteins: Exploring through protein-nanoparticle interactions

Bioorganic Chemistry 82 (2018) pp. 17–25

Sathish Dyawanapelly[a,b], Pihu Mehrotra[b], Goutam Ghosh[c], Dhanashree D Jagtap[d], Prajakta Dandekar[b,*], Ratnesh Jain[a,*]

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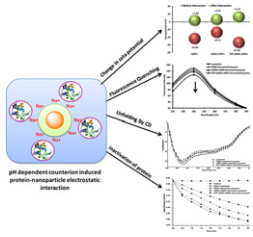

Bioactive staurosporine derivatives from the *Streptomyces* sp. NB-A13

Bioorganic Chemistry 82 (2018) pp. 33–40

Biao Zhou, Zhi-Juan Hu, Hao-Jian Zhang, Jia-Qi Li, Wan-Jing Ding, Zhong-Jun Ma*

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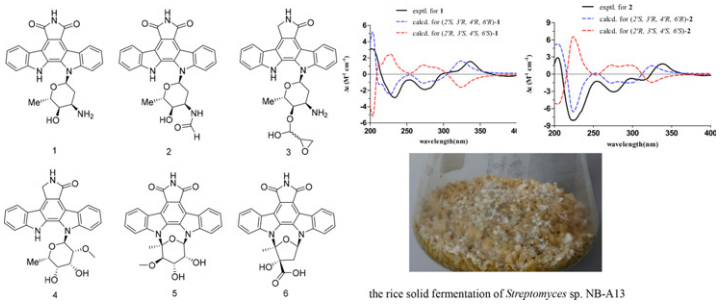

Identification and Structure–Activity Relationship (SAR) of potent and selective oxadiazole-based agonists of sphingosine-1-phosphate receptor ($S1P_1$)

Bioorganic Chemistry 82 (2018) pp. 41–57

Tianqi Liu[a], Jing Jin[a], Yonghui Chen[a], Qiumu Xi[b], Jinping Hu[a], Wenqiang Jia[b], Xiaoguang Chen[a], Yan Li[a], Xiaojian Wang[a,b,*], Dali Yin[a,b]

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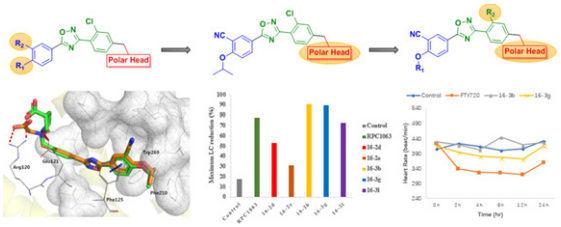

Lead compounds and key residues of ribosomal protein S1 in drug-resistant *Mycobacterium tuberculosis*

Bioorganic Chemistry 82 (2018) pp. 58–67

Yunbao Zhi[a,c], Yazhuang Dai[a,d], Juanjuan Yang[e], Shuhua Tan[a], Donghai Lin[b,*], Kejiang Lin[a,*]

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[b]*Xiamen University, Xiamen 361102, China*
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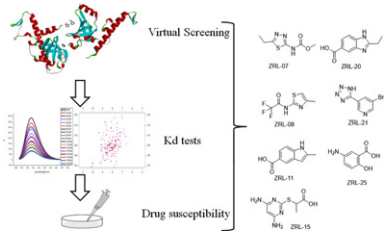

The isolation, absolute configuration and activities of 18(4 → 3)-*abeo*-abietane lactones from *Tripterygium wilfordii*

Bioorganic Chemistry 82 (2018) pp. 68–73

Lin Ni[a,b], Li Li[a], Yingda Zang[a], Chuang-jun Li[a], Jie Ma[a], Tiantai Zhang[a], Dong-ming Zhang[a,*]

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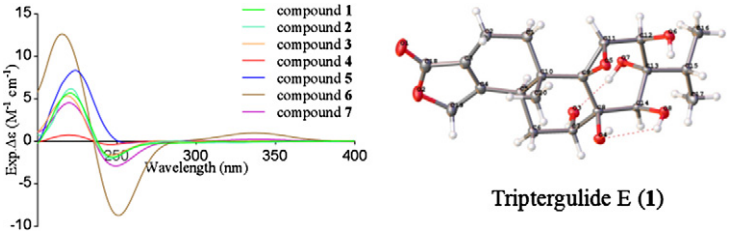

Pentamethinium salts as ligands for cancer: Sulfated polysaccharide co-receptors as possible therapeutic target

Bioorganic Chemistry 82 (2018) pp. 74–85

Tomáš Bříza[a,b,*], Jarmila Králová[c], Silvie Rimpelová[a], Martin Havlík[a,b], Robert Kaplánek[a,b], Zdeněk Kejík[b], Pavel Martásek[b], Ivan Mikula[b], Petr Džubák[d], Marián Hajdúch[d], Tomáš Ruml[a], Vladimír Král[a,b,*]

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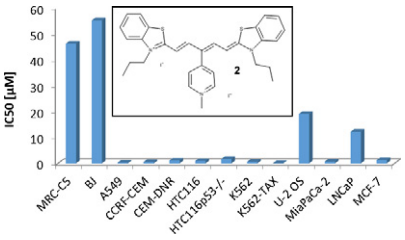

Design, synthesis, modeling studies and biological evaluation of thiazolidine derivatives containing pyrazole core as potential anti-diabetic PPAR-γ agonists and anti-inflammatory COX-2 selective inhibitors

Bioorganic Chemistry 82 (2018) pp. 86–99

Khaled R.A. Abdellatif[a,b,*], Wael A.A. Fadaly[a], Gehan M. Kamel[c], Yaseen A.M.M. Elshaier[d], Mohammed A. El-Magd[e]

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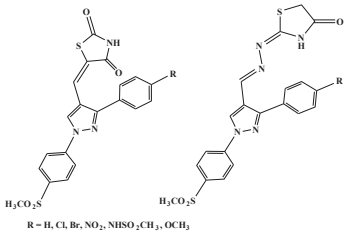

Design, synthesis and biological evaluation of N^1-(isoquinolin-5-yl)-N^2-phenylpyrrolidine-1,2-dicarboxamide derivatives as potent TRPV1 antagonists

Bioorganic Chemistry 82 (2018) pp. 100–108

Mingxiang Gao[a], Cunbin Nie[a], Jinyu Li[a], Beibei Song[a], Xinru Cheng[a], Erying Sun[a], Lin Yan[a,*], Hai Qian[b,*]

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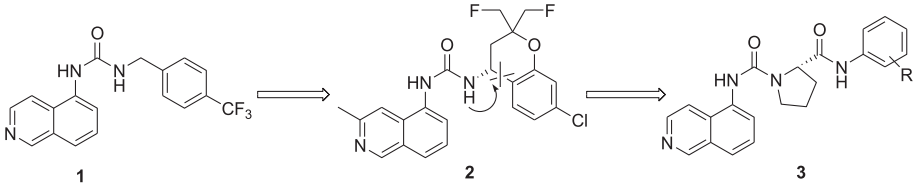

1,2,4-Trisubstituted imidazolinones with dual carbonic anhydrase and p38 mitogen-activated protein kinase inhibitory activity

Bioorganic Chemistry 82 (2018) pp. 109–116

Hanan H. Georgey[a], Fatma M. Manhi[b], Walaa R. Mahmoud[a,*], Nehad A. Mohamed[b], Emanuela Berrino[c], Claudiu T. Supuran[c]

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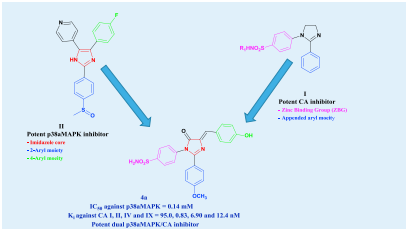

Design, synthesis and biological evaluation of novel ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as potent carbonic anhydrase IX inhibitors

Bioorganic Chemistry 82 (2018) pp. 117–122

Nabih Lolak[a], Suleyman Akocak[a,*], Silvia Bua[b], Claudiu T. Supuran[b,*]

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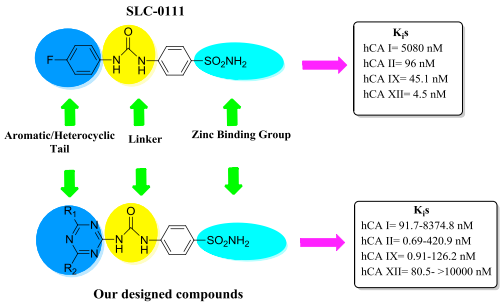

Design and synthesis of novel potent anticoagulant and anti-tyrosinase pyranopyrimidines and pyranotriazolopyrimidines: Insights from molecular docking and SAR analysis

Bioorganic Chemistry 82 (2018) pp. 129–138

Meriem Debbabi[a], Vijaykumar D. Nimbarte[b], Samia Chekir[a], Sarra Chortani[a], Anis Romdhane[a], Hichem Ben jannet[a,*]

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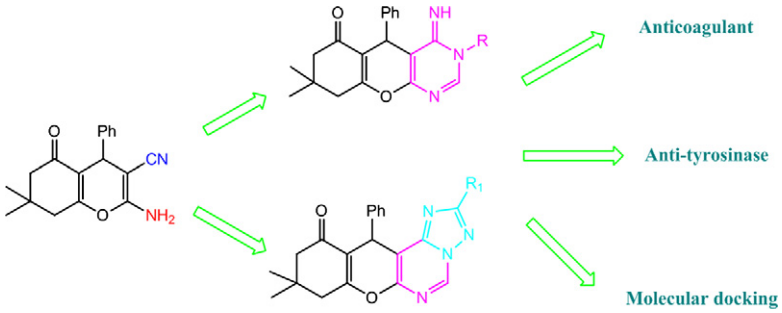

Six new compounds from the flowers of *Chrysanthemum morifolium* and their biological activities

Bioorganic Chemistry 82 (2018) pp. 139–144

Peng-Fei Yang[a,b], Ya-Nan Yang[a], Zi-Ming Feng[a], Jian-Shuang Jiang[a], Pei-Cheng Zhang[a,*]

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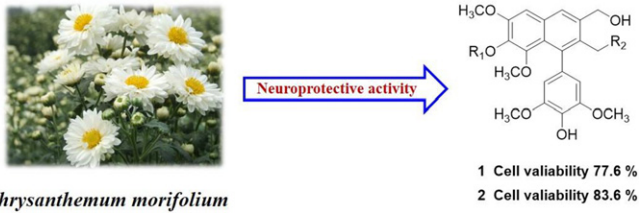

Chrysanthemum morifolium

Design, and facile synthesis of 1,3 diaryl-3-(arylamino) propan-1-one derivatives as the potential alpha-amylase inhibitors and antioxidants

Bioorganic Chemistry 82 (2018) pp. 156–162

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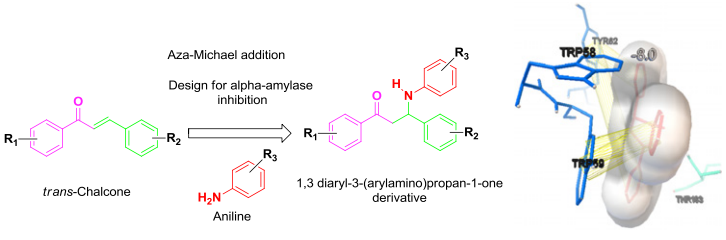

Synthesis and *in vitro* urease inhibitory activity of benzohydrazide derivatives, *in silico* and kinetic studies

Bioorganic Chemistry 82 (2018) pp. 163–177

Azhar Abbas[a], Basharat Ali[a], Kanwal[a], Khalid Mohammed Khan[a,c,*], Jamshed Iqbal[b,*], Shafiq ur Rahman[b], Sumera Zaib[b], Shahnaz Perveen[d]

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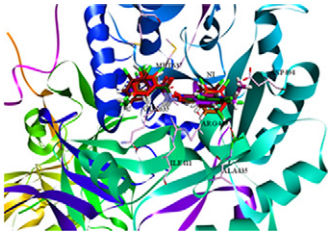
[d]*PCSIR Laboratories Complex, Karachi, Shahrah-e-Dr, Salimuzzaman Siddiqui, Karachi 75280, Pakistan*



α-Tocopherol-ascorbic acid hybrid antioxidant based cationic amphiphile for gene delivery: Design, synthesis and transfection

Bioorganic Chemistry 82 (2018) pp. 178–191

Venkanna Muripiti[a], Lohchania Brijesh[b], Hari Krishnareddy Rachamalla[c], Srujan Kumar Marepally[b], Rajkumar Banerjee[c], Srilakshmi V. Patri[a,*]

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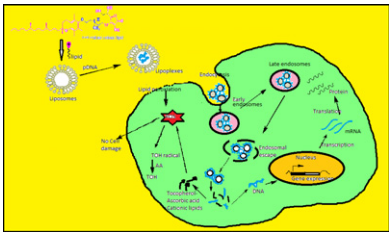

Hydrogen sulfide releasing enmein-type diterpenoid derivatives as apoptosis inducers through mitochondria-related pathways

Bioorganic Chemistry 82 (2018) pp. 192–203

Fanxing Xu[a,b], Xiang Gao[a], Haonan Li[a], Shengtao Xu[c], Xu Li[d], Xu Hu[a], Zhanlin Li[a], Jinyi Xu[c], Huiming Hua[a], Dahong Li[a,*]

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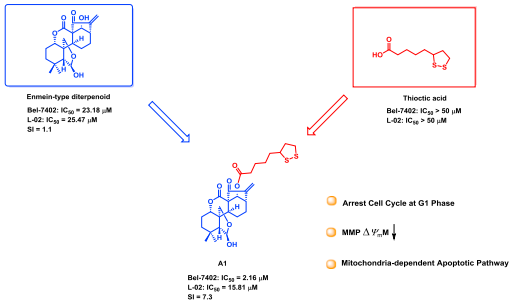

Novel quinazolin-4-one derivatives as potentiating agents of doxorubicin cytotoxicity

Bioorganic Chemistry 82 (2018) pp. 204–210

Monika Pospisilova[a,1], Martin Andrs[b,c,1], Martina Seifrtova[a], Radim Havelek[a], Daniel Jun[b,c], Pavel Tomsik[a], Lukas Prchal[b], Rafael Dolezal[b], Ales Tichy[d], Tomas Kucera[c], Jan Korabecny[b,c,*], Martina Rezacova[a,*]

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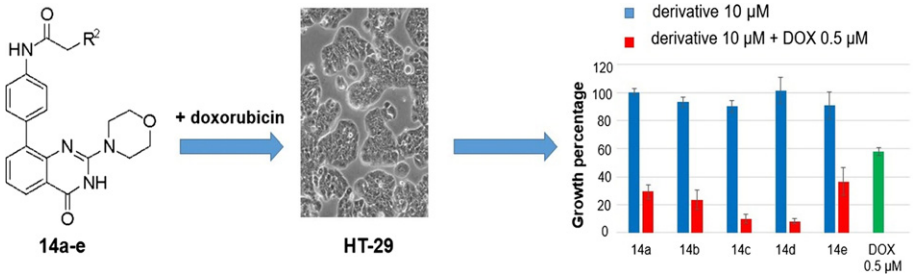

Design and development of novel p-aminobenzoic acid derivatives as potential cholinesterase inhibitors for the treatment of Alzheimer's disease

Bioorganic Chemistry 82 (2018) pp. 211–223

Sushant K. Shrivastava[a,*], Saurabh K. Sinha[b], Pavan Srivastava[a], Prabhash N. Tripathi[a], Piyoosh Sharma[a], Manish K. Tripathi[a], Avanish Tripathi[a], Priyanka K. Choubey[a], Digambar K. Waiker[a], Lalit M. Aggarwal[c], Manish Dixit[d], Subhash C. Kheruka[d], Sanjay Gambhir[d], Sharmila Shankar[e], Rakesh K. Srivastava[f]

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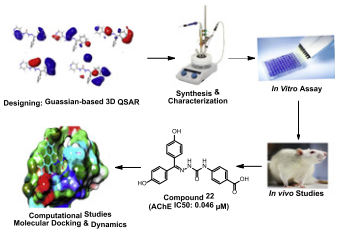

Antimicrobial and antibiofilm activity of polyurethane/*Hypericum perforatum* extract (PHPE) composite

Bioorganic Chemistry 82 (2018) pp. 224–228

Okay Nazlı[a], Tuba Baygar[b], Çiğdem Elif Demirci Dönmez[c], Özcan Dere[a], Ali İhsan Uysal[d], Alper Aksözek[e], Ceyhun Işık[f], Selçuk Aktürk[c,*]

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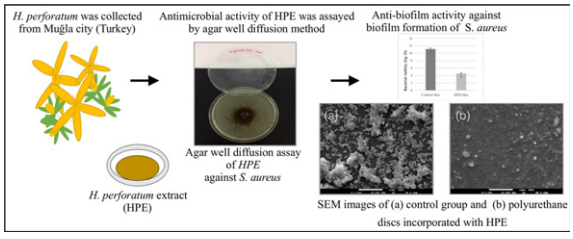

Rationally designed molecules for resurgence of cyanide mitigated cytochrome *c* oxidase activity

Bioorganic Chemistry 82 (2018) pp. 229–240

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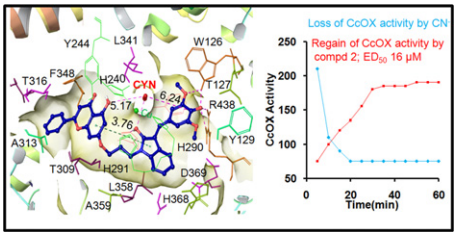

In vitro biological evaluation and molecular docking studies of natural and semisynthetic flavones from *Gardenia oudiepe* (Rubiaceae) as tyrosinase inhibitors

Bioorganic Chemistry 82 (2018) pp. 241–245

M.D. Santi[a,b], C. Bouzidi[c], N.S. Gorod[d], M. Puiatti[d], S. Michel[c], R. Grougnet[c], M.G. Ortega[a,b,*]

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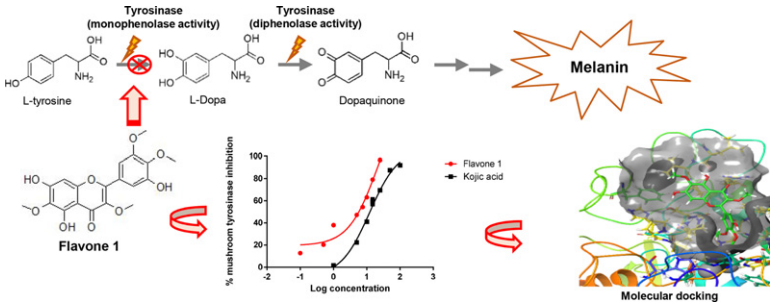

α-Sulfonamidophosphonates as new anti-mycobacterial chemotypes: Design, development of synthetic methodology, and biological evaluation

Bioorganic Chemistry 82 (2018) pp. 246–252

Srikant Bhagat[a], Metheku Supriya[a], Satish Pathak[a], Dharmarajan Sriram[b], Asit K. Chakraborti[a,*]

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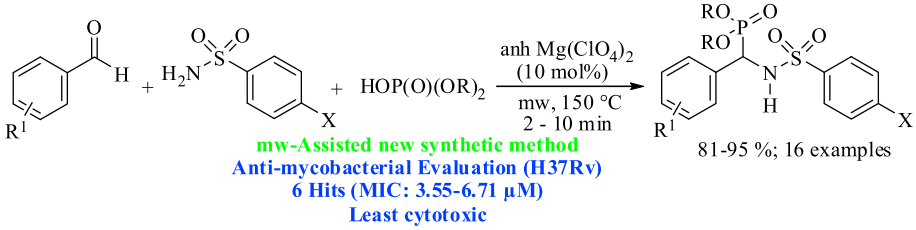

Schiff bases of tryptamine as potent inhibitors of nucleoside triphosphate diphosphohydrolases (NTPDases): Structure-activity relationship

Bioorganic Chemistry 82 (2018) pp. 253–266

Kanwal[a], Khalid Mohammed Khan[a,h,*], Uzma Salar[a], Saira Afzal[b], Abdul Wadood[c], Muhammad Taha[d], Shahnaz Perveen[e], Huma Khan[c], Joanna Lecka[f,g], Jean Sévigny[f,g], Jamshed Iqbal[b,*]

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[c]Department of Biochemistry, Computational Medicinal Chemistry Laboratory, UCSS, Abdul Wali Khan University Mardan, Pakistan
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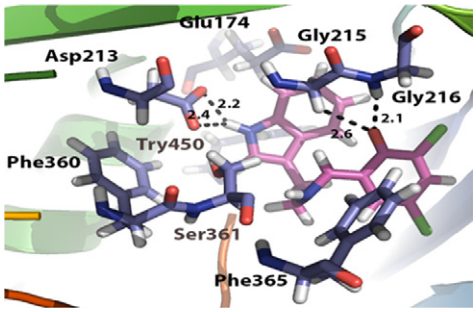

Imidazole-pyrazole hybrids: Synthesis, characterization and *in-vitro* bioevaluation against α-glucosidase enzyme with molecular docking studies

Bioorganic Chemistry 82 (2018) pp. 267–273

Faryal Chaudhry[a,b,*], Sadia Naureen[a], Muhammad Ashraf[c], Mariya Al-Rashida[d], Bakhat Jahan[c], Munawar Ali Munawar[a,*], Misbahul Ain Khan[a,c]

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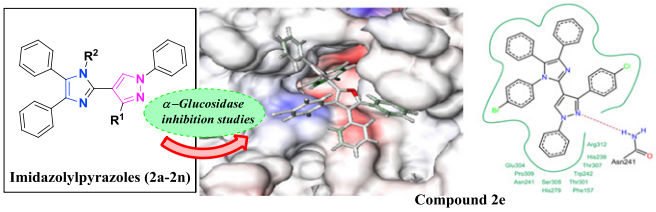

Bioactive scalemic caged xanthones from the leaves of *Garcinia bracteata*

Bioorganic Chemistry 82 (2018) pp. 274–283

Bao-Jun Zhang[a,b,c,1], Wen-Wei Fu[a,b,1], Rong Wu[a,b], Jin-Ling Yang[a,b], Cai-Yun Yao[d], Bing-Xiong Yan[d], Hong-Sheng Tan[a,b], Chang-Wu Zheng[a,b], Zhi-Jun Song[d,*], Hong-Xi Xu[a,b,*]

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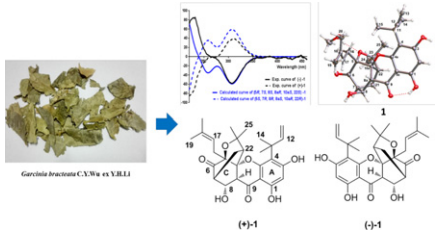

NMR fragment-based screening for development of the CD44-binding small molecules

Bioorganic Chemistry 82 (2018) pp. 284–289

Marcin Pustuła[a,1], Mirosława Czub[a,1], Beata Łabuzek[a], Ewa Surmiak[a], Marcin Tomala[a], Aleksandra Twarda-Clapa[c], Katarzyna Guzik[a], Grzegorz M. Popowicz[b], Tad A. Holak[a,*]

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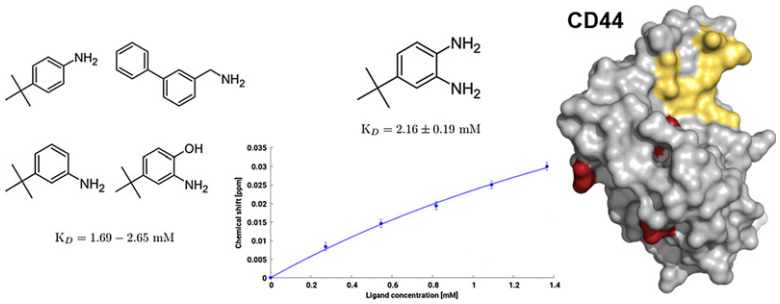

Design, synthesis and biological evaluation of fused naphthofuro[3,2-*c*] quinoline-6,7,12-triones and pyrano[3,2-*c*] quinoline-6,7,8,13-tetraones derivatives as ERK inhibitors with efficacy in BRAF-mutant melanoma

Bioorganic Chemistry 82 (2018) pp. 290–305

Ashraf A. Aly[a,*], Essmat M. El-Sheref[a], Momtaz E.M. Bakheet[a], Mai A.E. Mourad[b], Stefan Bräse[d,e], Mahmoud A.A. Ibrahim[a], Martin Nieger[f], Boyan K. Garvalov[g], Kevin N. Dalby[h], Tamer S. Kaoud[c,h,*]

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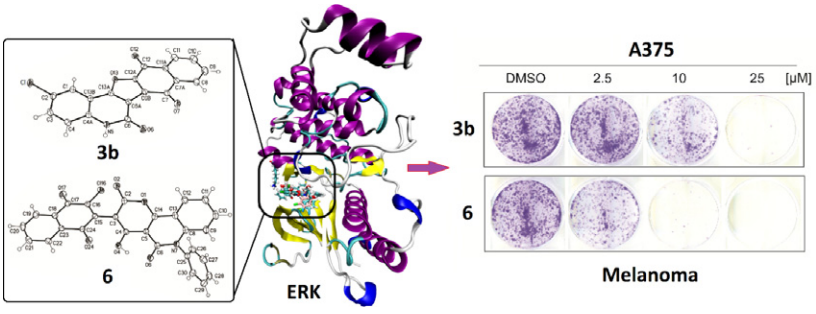

Design, synthesis, anti-inflammatory, cytotoxic and cell based studies of some novel side chain analogues of myrrhanones A & B isolated from the gum resin of *Commiphora mukul*

Bioorganic Chemistry 82 (2018) pp. 306–323

Uppuluri Venkata Mallavadhani[a,c,*], Madasu Chandrashekhar[a,c], Karri Shailaja[b], Sistla Ramakrishna[b]

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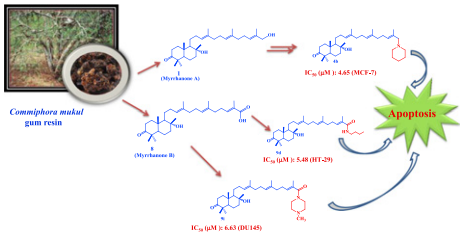

Pyranopyrazoles as efficient antimicrobial agents: Green, one pot and multicomponent approach

Bioorganic Chemistry 82 (2018) pp. 324–331

Guda Mallikarjuna Reddy[a,b], Jarem Raul Garcia[b,*], Grigory V. Zyryanov[a,c], Gundala Sravya[a], Nemallapudi Bakthavatchala Reddy[a]

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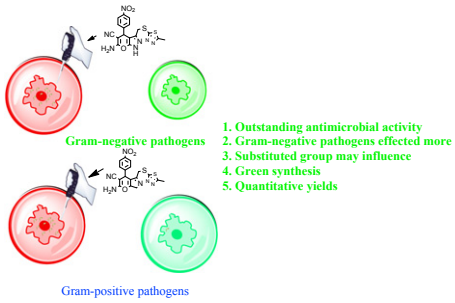
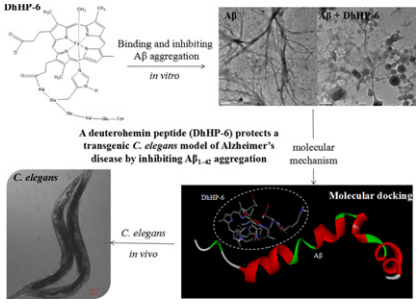


A deuterohemin peptide protects a transgenic *Caenorhabditis elegans* model of Alzheimer's disease by inhibiting $A\beta_{1-42}$ aggregation

Bioorganic Chemistry 82 (2018) pp. 332–339

Jia Xu, Ye Yuan, Ruining Zhang, Yanhui Song, Tianzhuo Sui, Jiaqi Wang, Chonghan Wang, Yujia Chen, Shuwen Guan, Liping Wang*

School of Life Sciences, Jilin University, Changchun, Jilin, China



Design, synthesis, biological evaluation and dynamics simulation of indazole derivatives with antiangiogenic and antiproliferative anticancer activity

Bioorganic Chemistry 82 (2018) pp. 340–359

Nevine M.Y. Elsayed[a], Rabah A.T. Serya[a], Mai F. Tolba[b], Marawan Ahmed[c], Khaled Barakat[c,d,e], Dalal A. Abou El Ella[a,f], Khaled A.M. Abouzid[a,g,*]

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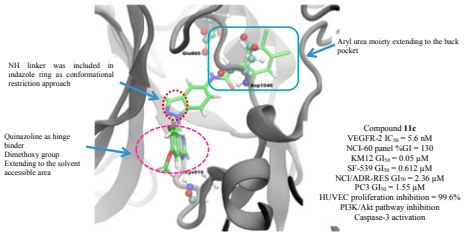

New quinoline/chalcone hybrids as anti-cancer agents: Design, synthesis, and evaluations of cytotoxicity and PI3K inhibitory activity

Bioorganic Chemistry 82 (2018) pp. 360–377

Samar H. Abbas[a,1], Amer Ali Abd El-Hafeez[b,c,d,1,*], Mai E. Shoman[a], Monica M. Montano[c], Heba A. Hassan[a,*]

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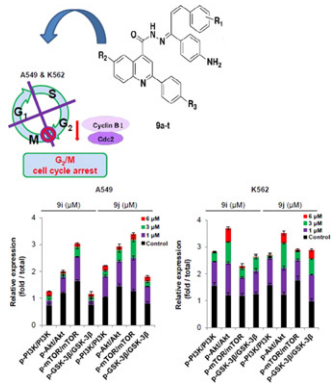

Resistance modulatory and efflux-inhibitory activities of capsaicinoids and capsinoids

Bioorganic Chemistry 82 (2018) pp. 378–384

Sandra Prasch[a], Alexandra G. Duran[b], Nuria Chinchilla[b], José M.G. Molinillo[b], Francisco A. Macías[b], Franz Bucar[a,*]

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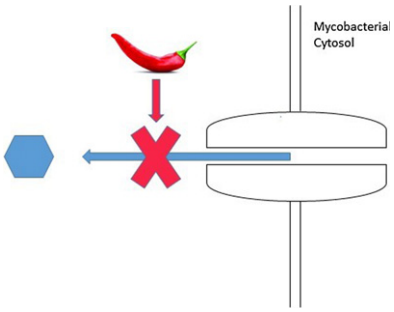

New antibacterial and 5-lipoxygenase activities of synthetic benzyl phenyl ketones: Biological and docking studies

Bioorganic Chemistry 82 (2018) pp. 385–392

Yesseny Vásquez-Martínez[b], Claudia Torrent[a,b], Giannina Toledo[a], Francisco Cabezas[a], Victoria Espinosa[b], Margarita Montoya-K[c], Sophia Mejias[c], Marcelo Cortez-San Martín[c], Silvia Sepúlveda-Boza[b], Carolina Mascayano[a,*]

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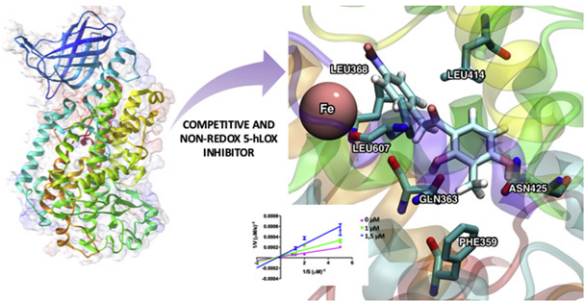

Synthesis, characterization, crystal structure of novel bis-thiomethylcyclohexanone derivatives and their inhibitory properties against some metabolic enzymes

Bioorganic Chemistry 82 (2018) pp. 393–404

Abdullah Biçer[a], Parham Taslimi[b], Gül Yakalı[c,d], Ilhami Gülçin[b,*], Mehmet Serdar Gültekin[b,e], Günseli Turgut Cin[a,*]

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[d]Central Research Laboratory, İzmir Katip Çelebi University, 35620 İzmir, Turkey
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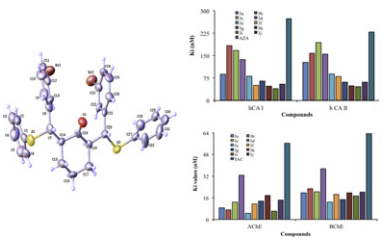

Side-chain cleaved phytoecdysteroid metabolites as activators of protein kinase B

Bioorganic Chemistry 82 (2018) pp. 405–413

Halima Meriem Issaadi[a], József Csábi[a], Tusty-Jiuan Hsieh[b], Tamás Gáti[c], Gábor Tóth[a,d,*], Attila Hunyadi[a,e,*]

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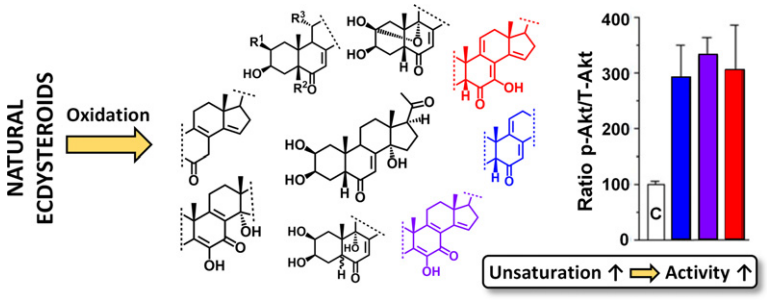

1,2,3-Triazole-based kojic acid analogs as potent tyrosinase inhibitors: Design, synthesis and biological evaluation

Bioorganic Chemistry 82 (2018) pp. 414–422

Morteza Ashooriha[a], Mehdi Khoshneviszadeh[b,c], Mahsima Khoshneviszadeh[c], Seyed Ershad Moradi[d], Alireza Rafiei[e], Mostafa Kardan[e], Saeed Emami[f,*]

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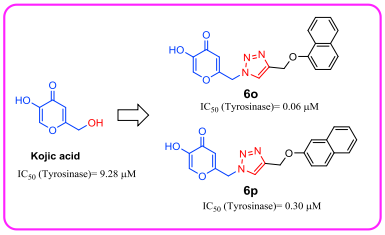

Synthesis of new thiazolo-pyrrolidine–(spirooxindole) tethered to 3-acylindole as anticancer agents

Bioorganic Chemistry 82 (2018) pp. 423–430

Mohammad Shahidul Islam[a], Hussien Mansur Ghawas[a], Fardous F. El-Senduny[b], Abdullah Mohammed Al-Majid[a], Yaseen A.M.M. Elshaier[c], Farid A. Badria[d], Assem Barakat[a,e,*]

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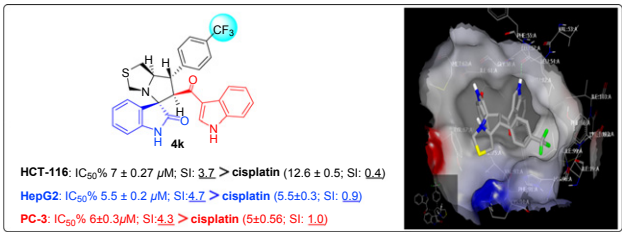
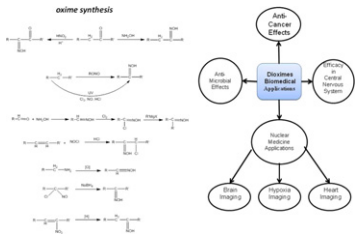


Dioximes: Synthesis and biomedical applications

Bioorganic Chemistry 82 (2018) pp. 145–155

Mohamed A. Motaleb, Adli A. Selim*

Labeled Compounds Department, Hot Laboratories Center, Atomic Energy Authority, P.O. Box 13759, Cairo, Egypt



Bioactivity-based analysis and chemical characterization of anti-inflammatory compounds from *Curcuma zedoaria* rhizomes using LPS-stimulated RAW264.7 cells

Bioorganic Chemistry 82 (2018) pp. 26–32

Tae Kyoung Lee[a,1], Tuy An Trinh[b,1], Seoung Rak Lee[a], Sil Kim[a], Hae Min So[a], Eunjung Moon[c], Gwi Seo Hwang[b], Ki Sung Kang[b], Ji Hwan Kim[b], Noriko Yamabe[b,*], Ki Hyun Kim[a,*]

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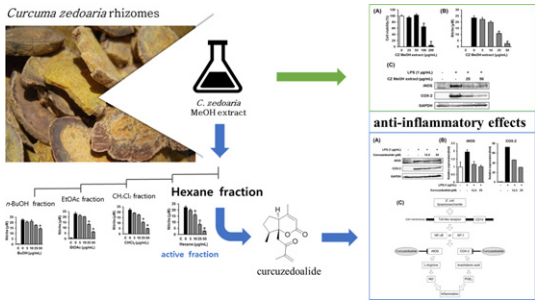
[c]*R&D Center, Dermalab Co. Ltd., 231, Munmakgongdan-gil, Munmak-eup, Wonju, Gangwon-do 26362, Republic of Korea*



3-Aminobenzenesulfonamides incorporating acylthiourea moieties selectively inhibit the tumor-associated carbonic anhydrase isoform IX over the off-target isoforms I, II and IV

Bioorganic Chemistry 82 (2018) pp. 123–128

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