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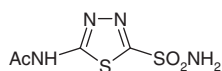
Bioorganic & Medicinal Chemistry Volume 22, Issue 17, 2014

Contents

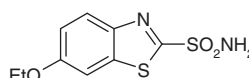
ARTICLES

- Sulfonamide inhibition study of the carbonic anhydrases from the bacterial pathogen *Porphyromonas gingivalis*: The β -class (PgiCAb) versus the γ -class (PgiCA) enzymes** pp 4537–4543

Sonia Del Prete, Daniela Vullo, Sameh M. Osman, Andrea Scozzafava, Zeid AlOthman, Clemente Capasso*, Claudiu T. Supuran*



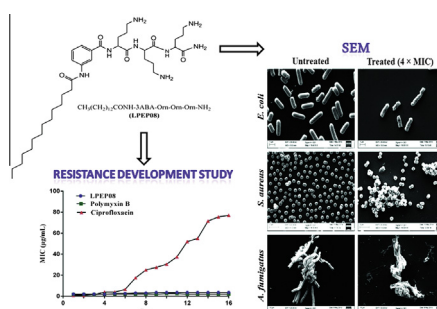
$K_i(\text{PgiCAb}) = 214 \text{ nM}$
 $K_i(\text{PgiCA}) = 324 \text{ nM}$



$K_i(\text{PgiCAb}) = 280 \text{ nM}$
 $K_i(\text{PgiCA}) = 613 \text{ nM}$

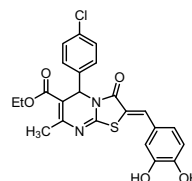
- Development of novel membrane active lipidated peptidomimetics active against drug resistant clinical isolates** pp 4544–4552

Sandeep Lohan, Arneesh Kalanta, Praveen Sonkusre, Swarnjit Singh Cameotra, Gopal Singh Bisht*

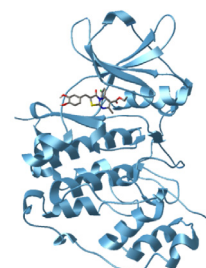


- Ethyl 2-(benzylidene)-7-methyl-3-oxo-2,3-dihydro-5H-thiazolo[3,2-a]pyrimidine-6-carboxylate analogues as a new scaffold for protein kinase casein kinase 2 inhibitor** pp 4553–4565

Cheng-Hao Jin, Kyu-Yeon Jun, Eunjung Lee, Seongrak Kim, Youngjoo Kwon, Kunhong Kim*, Younghwa Na*



Compound 24



Docking mode of PKCK2α and 24

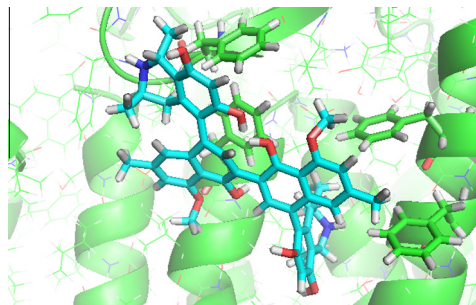
Compound 24 ($IC_{50} = 0.56 \mu\text{M}$) suggest a new scaffold for specific PKCK2α inhibitors, which is a selective, cell-permeable, potent, and novel PKCK2α inhibitor.



Identification of novel inhibitors of phospho-MurNAc-pentapeptide translocase *MraY* from library screening: Isoquinoline alkaloid michellamine B and xanthene dye phloxine B

pp 4566–4571

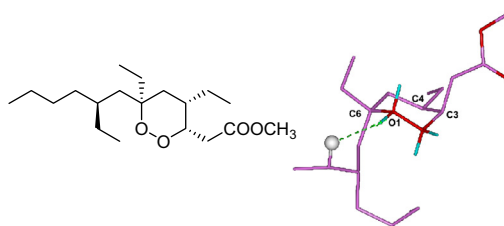
Agnes Mihalyi, Shirin Jamshidi, Justinas Slikas, Timothy D. H. Bugg*



Endoperoxide polyketides from a Chinese *Plakortis simplex*: Further evidence of the impact of stereochemistry on antimalarial activity of simple 1,2-dioxanes

pp 4572–4580

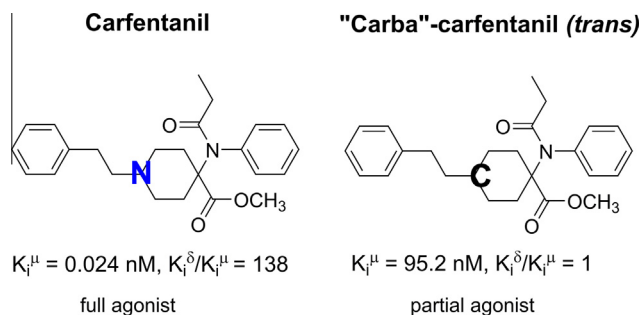
Giuseppina Chianese, Marco Persico, Fan Yang, Hou-Wen Lin*, Yue-Wei Guo, Nicoletta Basilico, Silvia Parapini, Donatella Taramelli, Orazio Tagliatela-Scafati*, Caterina Fattorusso



'Carba'-carfentanil (*trans* isomer): A μ opioid receptor (MOR) partial agonist with a distinct binding mode

pp 4581–4586

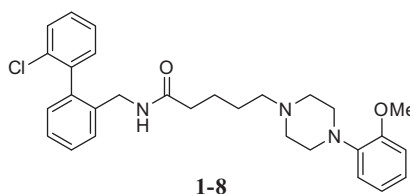
Grazyna Weltrowska, Carole Lemieux, Nga N. Chung, Jason J. Guo, Brian C. Wilkes, Peter W. Schiller*



Novel *N*-biphenyl-2-ylmethyl 2-methoxyphenylpiperazinylalkanamides as 5-HT₇R antagonists for the treatment of depression

pp 4587–4596

Youngjae Kim, Jinsung Tae, Kangho Lee, Hyewhon Rhim, Il Han Choo, Heeyeong Cho, Woo-Kyu Park, Gyochang Keum*, Hyunah Choo*



5-HT₇R binding assay: K_i 8.69 nM. 5-HT₇R functional assay: 76.2% inhibition at 10 μ M. Forced swimming test: 84.9% reduced immobilization at an ip dose of 25 mg/kg.

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