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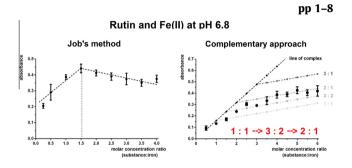
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Regular Articles

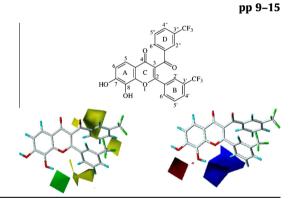
Mathematical calculations of iron complex stoichiometry by direct UV-Vis spectrophotometry

Tomáš Filipský, Michal Říha, Radomír Hrdina, Kateřina Vávrová and Přemysl Mladěnka*



Ligand-based CoMFA and CoMSIA studies on chromone derivatives as cradical scavengers

Narumol Phosrithong and Jiraporn Ungwitayatorn*

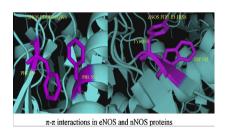


Investigations on the role of π - π interactions and π - π networks in eNOS and nNOS proteins

pp 16-23

Sivasakthi Vaideeswaran and Sudha Ramaiah*

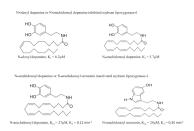
 π - π Interactions of aromatic amino acids in nNOS and eNOS proteins were analyzed. The interactions between residues Phe 439, Phe 534 in nNOS PDB ID 1QW6 and Tyr 333, Trp 332 in eNOS PDB ID 1RS8 are displayed.



Effect of endocannabinoids on soybean lipoxygenase-1 activity

pp 24-32

Minh Duc Nguyen, Dang Hung Nguyen, Jae-Myung Yoo, Pyung-Keun Myung, Mee Ree Kim and Dai-Eun Sok*



Synthesis, characterization, and molecular docking analysis of novel benzimidazole derivatives as cholinesterase inhibitors

pp 33-39

Yeong Keng Yoon,* Mohamed Ashraf Ali, Ang Chee Wei, Tan Soo Choon, Kooi-Yeong Khaw, Vikneswaran Murugaiyah, Hasnah Osman and Vijay H. Masand

Compound **5Hc**: ethyl 1-(3-(1H-imidazol-1-yl)propyl)-2-(4-nitrophenyl)-1H-benzo[d]imidazole-5-carboxylate

 IC_{50} = 5.12 μM for AChE and IC_{50} = 8.63 μM for BChE

Mutual prodrugs containing bio-cleavable and drug releasable disulfide linkers

pp 40-48

Arun K. Jain, Machhindra G. Gund, Dattatraya C. Desai, Namdev Borhade, Subrayan P. Senthilkumar, Mini Dhiman, Naveen K. Mangu, Sunil V. Mali, Nauzer P. Dubash, Somnath Halder and Apparao Satyam*

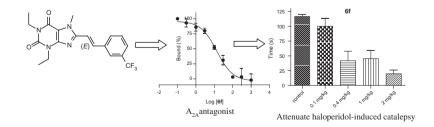


D¹-XH = Drug 1, where, X = O, NR (R = H or a bond linked to the D¹ residue), CONH, NCONH; D²-CO₂H = Carboxyl-containing Drug 2; RSH = Cysteine or Glutathione reduced; RSSR = Cystine or Glutathione oxidized.

The adenosine A_{2A} antagonistic properties of selected C8-substituted xanthines

pp 49-58

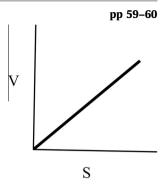
Mietha M. Van der Walt, Gisella Terre'Blanche, Anél Petzer, Anna C.U. Lourens and Jacobus P. Petzer*



Letter to the Editor

Analysis of claims of enhanced enzyme catalysis by inorganic colloidosomes

Ronald Kluger*



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