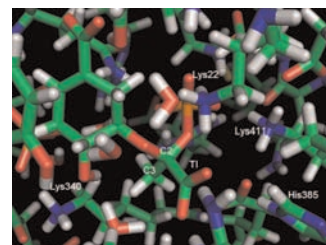


5-Enolpyruvylshikimate-3-phosphate synthase: Determination of the protonation state of active site residues by the semiempirical method

pp 113–120

Anivaldo Xavier de Souza and Carlos Mauricio R. Sant'Anna*

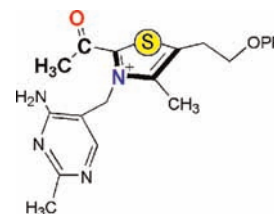


Cloning, expression, purification, cofactor requirements, and steady state kinetics of phosphoketolase-2 from *Lactobacillus plantarum*

pp 121–127

Alejandro Yevenes and Perry A. Frey*

2-Acetylthiamine pyrophosphate and an irreversible step in the action of phosphoketolase.

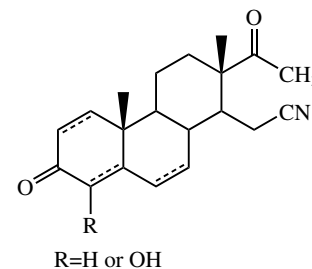


Synthesis and biological evaluation of a series of A,B-ring modified 16,17-secoandrostane derivatives

pp 128–132

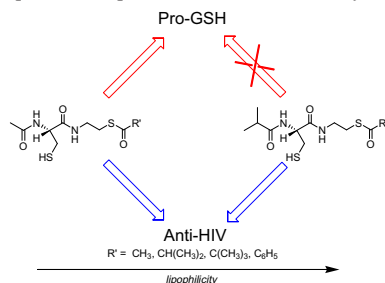
Marija Sakač*, Andrea Gaković, Srdjan Stojanović, Evgenija Djurendić, Vesna Kojić, Gordana Bogdanović and Katarina Penov Gaši

Antiaromatase activity and *in vitro* cytotoxicity of several A,B-ring modified 16,17-secoandrostane derivatives are reported.



Synthesis of new *N*-isobutyryl-L-cysteine/MEA conjugates: Evaluation of their free radical-scavenging activities and anti-HIV properties in human macrophages pp 133–140

Michael Smietana*, Pascal Clayette, Patricia Mialocq, Jean-Jacques Vasseur and Joël Oiry



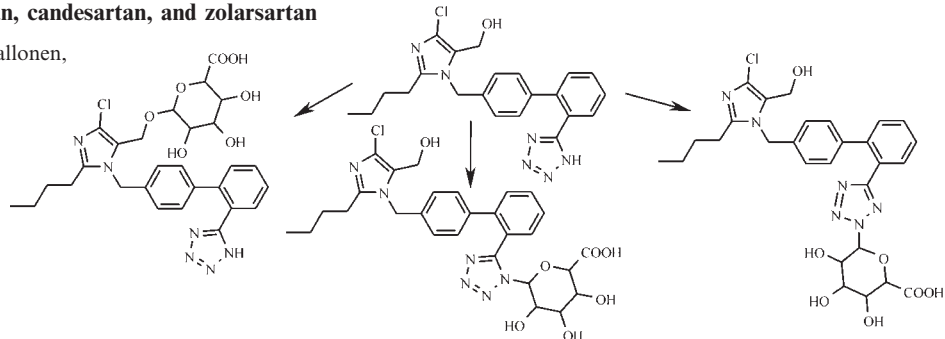
A new nonhydrolyzable reactive cGMP analogue, (Rp)-guanosine-3',5'-cyclic-*S*-(4-bromo-2,3-dioxobutyl)monophosphorothioate, which targets the cGMP binding site of human platelet PDE3A pp 141–147

Su H. Hung, Andy H. Liu, Robin A. Pixley, Penelope Francis, LaTeeka D. Williams, Christopher M. Matsko, Karine D. Barnes, Sharmila Sivendran, Roberta F. Colman and Robert W. Colman*

We have synthesized a nonhydrolyzable cAMP affinity label which over time irreversibly inactivates cGMP-inhibited cAMP phosphodiesterase and targets the inhibitory cGMP site with a higher affinity than the substrate cAMP site.

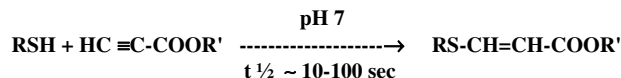
Enzyme-assisted synthesis and structure characterization of glucuronic acid conjugates of losartan, candesartan, and zolarsartan pp 148–155

Anna Alonen, Johanna Jansson, Sirkku Kallonen, Alexandros Kiriazis, Olli Aitio, Moshe Finel and Risto Kostianen*



Thiol detection, derivatization and tagging at micromole to nanomole levels using propiolates pp 156–160

Terence C. Owen*



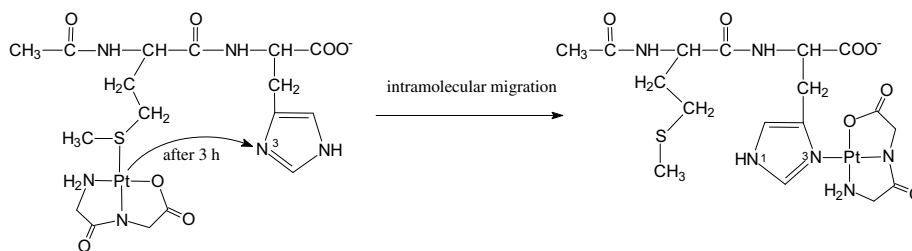
Thiols, including polypeptide and protein thiols, react rapidly and selectively with propiolate esters under very mild conditions to give thioacrylates. These stable derivatives exhibit characteristic UV and NMR spectra.

Reaction of $[\text{Pt}(\text{Gly-Gly-}N,N',O)\text{I}]^-$ with the *N*-acetylated dipeptide L-methionyl-L-histidine: Selective platination of the histidine side chain by intramolecular migration of the platinum(II) complex

pp 161–164

Marija D. Živković, Snežana Rajković and Miloš I. Djuran*

In the reaction between monofunctional $[\text{Pt}(\text{Gly-Gly-}N,N',O)\text{I}]^-$ complex and MeCOMet-His dipeptide complete intramolecular migration of the $[\text{Pt}(\text{Gly-Gly-}N,N',O)]$ unit from the methionine sulfur to the N3 nitrogen of imidazole was observed.



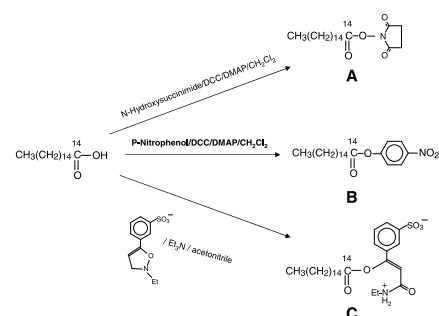
PRELIMINARY COMMUNICATION

Fatty acid-binding site environments of serum vitamin D-binding protein and albumin are different

pp 165–168

Narasimha Swamy and Rahul Ray*

WRK-ester of ^{14}C -palmitic acid specifically labeled DBP, but *p*-nitrophenyl, and *N*-hydroxysuccinimide-esters did not. However, *p*-nitrophenyl- ^{14}C -palmitate labeled ALB. Therefore, micro-environment of fatty acid-binding domains of DBP and ALB may be different.



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