

Tetrahedron Letters Vol. 51, No. 17, 2010

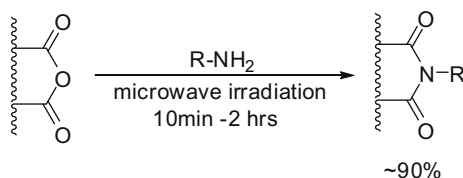
Contents

COMMUNICATIONS

Comparison of microwave-assisted and conventional preparations of cyclic imides

pp 2215–2217

Sunil K. Upadhyay, Subramanya R. K. Pingali, Branko S. Jursic*

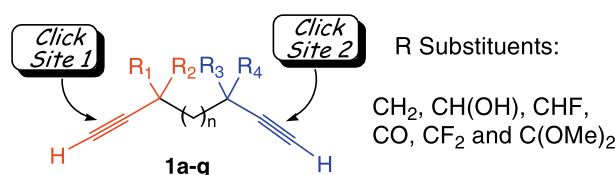


Microwave-assisted preparation of cyclic imides is superior with respect to isolated yield and length of reaction time when compared to conventional methods of preparation of imides.

Effect of fluorine or oxygen atom(s) in propargylic position on the reactivity in click chemistry

pp 2218–2221

Danielle Grée, René Grée*



Newly designed ω -diynes allow to establish, through competitive reactions, the effect of C–F, C–OH, CF₂, C=O and C(OMe)₂ substituents on the reactivity of neighbouring triple bonds in click chemistry.

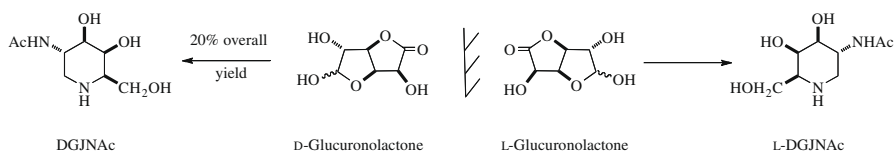


Synthesis of 2-acetamido-1,2-dideoxy-D-galacto-nojirimycin [DGJNAc] from D-glucuronolactone: the first sub-micromolar inhibitor of α -N-acetylglucosaminidases

pp 2222–2224

Daniel Best, Phoom Chairatana, Andreas F. G. Glawar, Elizabeth Crabtree, Terry D. Butters, Francis X. Wilson, Chu-Yi Yu, Wu-Bao Wang, Yue-Mei Jia, Isao Adachi, Atsushi Kato, George W. J. Fleet*

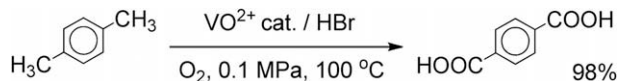
First sub-micromolar inhibitor of α -N-acetylglucosaminidases
K_i 0.081 μ M from chicken liver,
K_i 0.136 μ M from *Charonia lampas*



Novel oxidation of toluenes catalyzed by reusable vanadyl(IV) sulfate under mild conditions with molecular oxygen

pp 2225–2227

Takeo Nakai*, Toshiyuki Iwai, Masatoshi Mihara, Takatoshi Ito, Takumi Mizuno

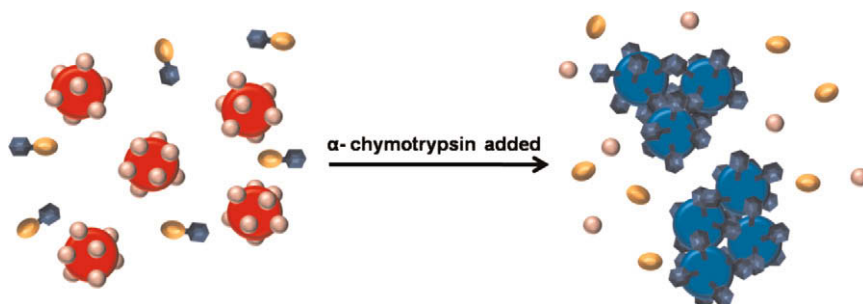


Efficient oxidation system using vanadyl(IV) sulfate catalyst with molecular oxygen was established. Recovered catalyst could be reused without loss of activity.

Real-time colorimetric screening of endopeptidase inhibitors using adenosine triphosphate (ATP)-stabilized gold nanoparticles

pp 2228–2231

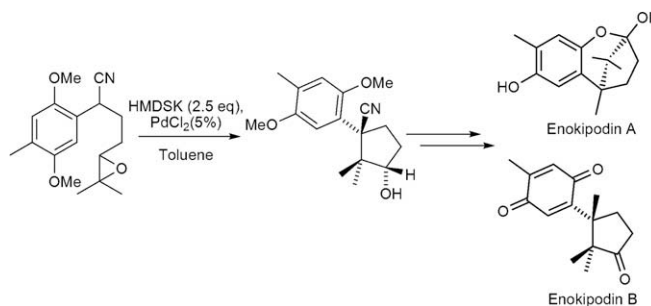
Mi Hee Kim, Soo Suk Lee, Sang J. Chung, Hyun Hye Jang, Sujung Yi, Sudeok Kim, Suk-Kyu Chang, Min Su Han*



Palladium (II) catalyzed 5-endo epoxynitrile cyclizations: total syntheses of enokipodins A and B

pp 2232–2236

Jesús Armando Luján-Montelongo, José G. Ávila-Zárraga*



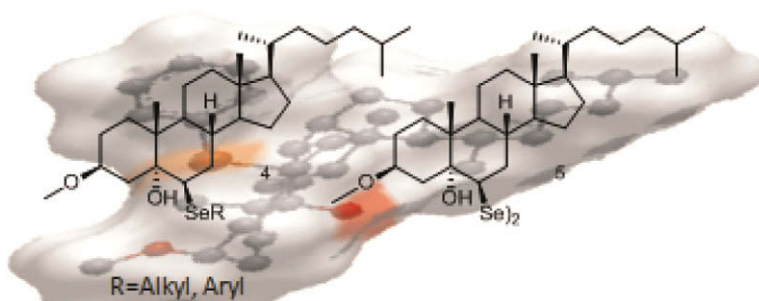
A new divergent total synthesis of the cuparene sesquiterpenes enokipodins A and B is described. It features as the key step a novel cation-controlled, palladium (II) improved, 5-endo cyclization, which has been classically considered as 'non-favoured'.



Stereoselective synthesis of selenosteroids

pp 2237–2240

Oscar E. D. Rodrigues*, Diego de Souza, Letiére C. Soares, Luciano Dornelles, Robert A. Burrow, Helmoz R. Appelt, Camila F. Alves, Diego Alves*, Antonio L. Braga



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