GRAPHICAL ABSTRACTS

Tetrahedron Lett.30,2603(1989) IMPROVED PROCEDURES FOR THE PALLADIUM-CATALYZED INTERMOLECULAR ARYLATION OF CYCLIC ALKENES Richard C. Larock,* William H. Gong and Bruce E. Baker Department of Chemistry, Iowa State University, Ames, Iowa 50011 Improved procedures for the palladium-catalyzed, intermolecular, allylic cross-coupling of aryl halides and cyclic alkenes inhibit double-bond isomerization and accommodate many important functional groups. cat. Pd(O) ArX + Tetrahedron Lett.30,2607(1989) TRANSITION METAL MEDIATED ORGANIC SYNTHESIS, Part 11: 2-ARYL SUBSTITUENTS: NEW DIRECTING GROUPS IN CYCLOHEXADIENYL N-COMPLEXES David A. Owen and G. Richard Stephenson, Harry Finch, and Stephen Swanson Regioselective formation and alkylation of tricarbonyl(n^{5} -2-arylcyclohexadienyl)iron(1+) salts provides a new route Nu to intermediates to 5-substituted 2-arylcyclohexadienes by preferential nucleophile addition to C-5 e(CO)_a 4:<1 Fe(CO)of the dienyl system. Tetrahedron Lett.30,2611(1989) SYNTHESIS OF THE PYRROLO[2,3-I]ISOQUINOLINE SUB-STRUCTURE OF THE MANZAMINE FAMILY OF ALKALOIDS David J. Hart* and Jeffrey A. McKinney Department of Chemistry, The Ohio State University, 120 W. 18th Ave., Columbus, Ohio 43210 The title ring system was prepared from benzoic acid using a reductive alkylation / free radical cyclization / electrophile initiated cyclization reaction sequence. NHCO₂Et . NCO₂Et Tetrahedron Lett.30,2615(1989) STEREOSPECIFIC NICKEL AND PHASE TRANSFER CATALYZED CARBONYLATION OF VINYL BROMIDES AND CHLORIDES H. Alper* and I. Amer, Dept. of Chemistry, University of Ottawa, Ottawa, Canda KlN 6N5 G. Vasapollo, Dept. of Chemistry, University of Bari, 70126, Bari, Italy Vinyl bromides and chlorides are carbonylated to acids using ${
m Ni(CN)}_2$ as the catalyst. N1(CN)2.4H20 + C0 6N NaOH, CTAB PhCH3 ัดกาห





Tetrahedron Lett. 30,2641(1989)

USE OF AN ALLYLIC ANCHOR GROUP AND OF ITS PALLADIUM CATALYZED HYDRO-STANNOLYTIC CLEAVAGE IN THE SOLID PHASE SYNTHESIS OF PROTECTED PEP-TIDE FRAGMENTS F.GUIBE, O.DANGLES and G.BALAVOINE, Institut de Chimie Moléculaire d'Orsay, Laboratoire de Chimie Organique des Eléments de Transition, associé au CNRS, Bât 420 91405 ORSAY Cedex (France). A.LOFFET, Propeptide, BP 12, 91710 VERT LE PETIT (France).

Protected peptide fragments have been synthetized on aminomethyl resin using the allylic handle $O-CH_2CH=CH_2-O-CH_2-CO-$ and Boc α -amino protection. The catalytic hydrostannolytic cleavage of the peptide chain from the resin occurs under especially mild conditions.

Tetrahedron Lett. 30, 2645 (1989) THE ASYMMETRIC MICHAEL PROCESS INVOLVING CHIRAL IMINES: THE DIASTEREOFACIAL DIFFERENTIATION ASPECT. d'Angelo J., Revial G., Guingant A., ESPCI. Paris Riche C., Chiaroni A., CNRS, Gif-sur-Yvette (France) A mechanism for the diastereofacial differentiation CS 15 in the title reaction is proposed on the basis of Cł 02 the variation of the chiral auxiliary amines and of n the examination of the crystal structure of enamino-C6 'n ester 15. Tetrahedron Lett. 30, 2649 (1989 N-ACETOXY-N-ALKOXYAMIDES NEW CLASS OF NITRENIUM ION PRECURSORS WHICH ARE MUTAGENIC. Robert G. Gerdes, Stephen A.Glover*, José F. ten Have and Colleen A.Rowbottom PhCON(CI)OR AgOAc/Et20 PhCON(OAc)OR (11)(14) Department of Chemistry, University of New England, (a) R=Et [98%] Armidale, N.S.W.2351, Australia (b) R=n-Bu [82%] N-chloro-O-alkylbenzohydroxamates (11) react with silver acetate in ether giving N-acetoxy-N-(c) R=n-Oct [69%] (d) R=Bz [89%] alkoxybenzamides (14) which, have been shown to be mutagenic in the Ames test. Tetrahedron Lett.30,2653(1989) SYNTHESIS OF A NEW SULFUR-CONTAINING DIPEPTIDE ANALOGUE







Tetrahedron Lett. 30,2705(1989) A MEERWEIN-PONNDORF-VEALEY TYPE REDUCTION OF UNSATURATED $\alpha \cdot \beta$ KETONES TO ALLYLIC ALCOHOLS CATALYZED BY MgO. J.Kaspar, M.Graziani, Dipartimento di Scienze Chimiche, Piazzale Europa 1, 34127 Trieste, Italy A.Trovarelli, Istituto di Chimica, Facoltà di Ingegneria, Viale Ungheria 43, 33100 Udine, Italy M.Lenarda, Dipartimento di Chimica, Calle Larga S.Marta 2137, 30123 Venezia, Italy OH OH Mg0. 250-300°C R, R, Flow condition R_2 R, Tetrahedron Lett.30,2707(1989) A USEFUL METHOD FOR PREPARING OPTICALLY ACTIVE SECONDARY ALCOHOLS: A SHORT ENANTIOSPECIFIC SYNTHESIS OF (R)- AND (S)- SULCATOL. Carlos M. Afonso, M. Teresa Barros, Licio Godinho and Christopher D. Maycock. Faculdade de Ciências, Universidade Nova de Lisboa, 2825 Monte de Caparica, Portugal. OH OH The antipodes of sulcatol 1 have OFI been prepared from readily available ČO₂Et CO₂Et starting materials. A key step in the strategy is the use of the OH Barton method of decarboxylation. <u>S-1</u> Tetrahedron Lett. 30,2709(1989) SUBSTITUENT INDUCED FINE-TUNING OF NOVEL CATIONIC REARRANGEMENTS IN [3.3.3] PROPELLANIC SYSTEMS G. Mehta and D. Subrahmanyam, School of Chemistry, University of Hyderabad, Hyderabad - 500 134, India. Summary: Profound effect of alkyl substituents at C(4) & C(8) positions on the course of cationic rearrangements of [3.3.3] propellan-3-ones has been observed.