

GRAPHICAL ABSTRACTS

REMOTE LITHIATION OF *N*-METHALLYL AMIDES

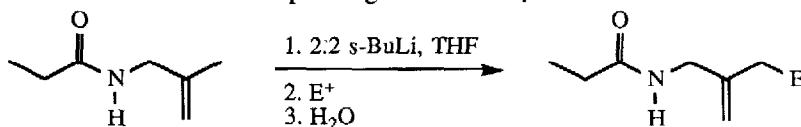
Dale J. Kempf

Pharmaceutical Products Division, Abbott Laboratories, Abbott Park, IL 60064

Metalation of *N*-methallyl amides occurs at nitrogen and at the remote methyl group.

Further treatment with electrophiles gives rise to γ -substituted derivatives.

Tetrahedron Lett. 30, 2029 (1989)



TRICHLOROMETHYL CARBONATE AS A PRACTICAL PHOSGENE SOURCE:

APPLICATION TO THE SYNTHESIS OF α -CHLORO CHLOROFORMATES

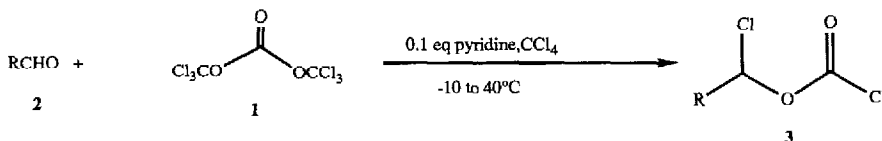
Michael J. Coghlan* and Blake A. Caley

Lilly Research Laboratories, A Division of Eli Lilly and Co., Greenfield, Indiana 46140

Summary: Trichloromethyl carbonate **1** is used as a phosgene equivalent in the preparation of α -chloro chloroformates.

This stable, crystalline reagent smoothly delivers products **3** in good yields under mild conditions.

Tetrahedron Lett. 30, 2033 (1989)



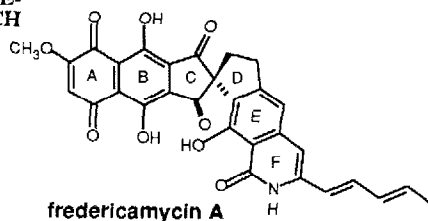
STUDIES ON THE TOTAL SYNTHESIS OF FREDERICAMYCIN A: DEVELOPMENT OF AN INTERMOLECULAR ALKYNE-CHROMIUM CARBENE COMPLEX CYCLIZATION APPROACH TO THE ABCDE RING SYSTEM

Dale L. Boger* and Irina C. Jacobson

Departments of Chemistry and Medicinal Chemistry
Purdue University, West Lafayette, Indiana, 47907, USA

The development of a synthetic approach to the fredericamycin A ABCDE ring system based on a regioselective intermolecular alkyne-chromium carbene complex cyclization is detailed.

Tetrahedron Lett. 30, 2037 (1989)



fredericamycin A

DOCUMENTING THE SCOPE OF THE CATALYTIC ASYMMETRIC DIHYDROXYLATION

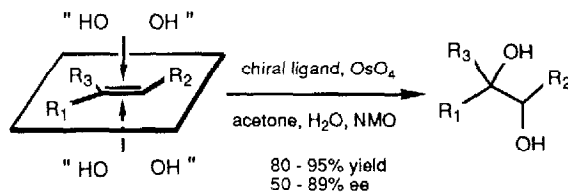
B. Bhushan Lohray, Thomas H. Kalantar, B. Moon Kim, Christine Y. Park

Tomoyuki Shibata, John S. M. Wai, and K. Barry Sharpless

Department of Chemistry, Massachusetts Institute of Technology,
Cambridge, Massachusetts 02139

A wide variety of functionalized and unfunctionalized olefins are efficiently converted to the corresponding *cis* vicinal diols in moderate to good enantiomeric excess via "slow addition" enhanced catalytic asymmetric osmylation process

Tetrahedron Lett. 30, 2041 (1989)

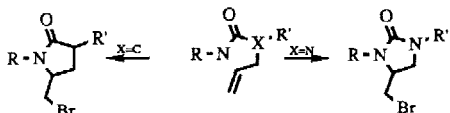


HALOCYCLIZATIONS: THE CYCLIZATION OF HETEROCYCLIC
OLEFINIC AMIDES AND UREAS

T.W. Balko, R.S. Brinkmeyer*, and N.H. Terando
Lilly Research Laboratories, Eli Lilly and Co., Greenfield, Indiana 46140

Tetrahedron Lett. 30, 2045 (1989)

Studies of the halocyclization of olefinic amides and ureas were undertaken and demonstrated cyclization on nitrogen depended on the substituent on the amide nitrogen.

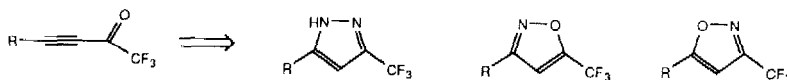


AN EFFICIENT METHOD FOR THE SYNTHESIS OF
TRIFLUOROMETHYL SUBSTITUTED HETEROCYCLES

Russell J. Linderman* and Kirolos S. Kirolos, Department of Chemistry,
North Carolina State University, Raleigh, NC 27695

Tetrahedron Lett. 30, 2049 (1989)

Trifluoromethyl substituted pyrazoles and isoxazoles have been prepared regioselectively from trifluoroacetyl acetylenes

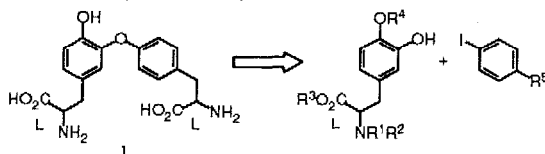


SYNTHESIS OF L,L-ISODITYROSINE

Dale L. Boger* and Daniel Johannes
Departments of Chemistry and Medicinal Chemistry, Purdue University, W. Lafayette, Indiana 47907 USA

Tetrahedron Lett. 30, 2053 (1989)

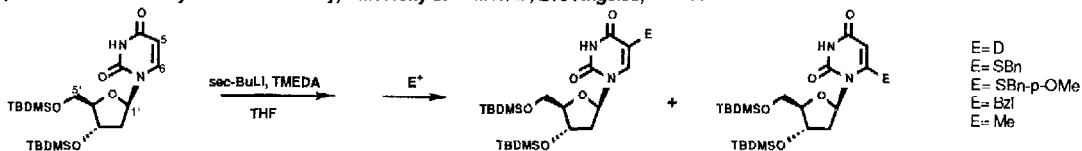
A study of the development of reaction conditions for implementation of an activated Ullmann diaryl ether condensation reaction that may be conducted without amino acid racemization and that has proven suitable for the incorporation of a selectively protected catechol is described and its application to the synthesis of L,L-isodityrosine (**1**) is detailed.



SYNTHESIS OF 5-SUBSTITUTED NUCLEOSIDES VIA THE REGIOSELECTIVE
LITHIATION OF 2'-DEOXY-3',5'-BIS-O-[(1,1-DIMETHYLETHYL)DIMETHYLSILYL]-URIDINE

Robert W. Armstrong*, Saaket Gupta, and Fayelle Whelihan
Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90024

Tetrahedron Lett. 30, 2057 (1989)



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