Contents lists available at ScienceDirect

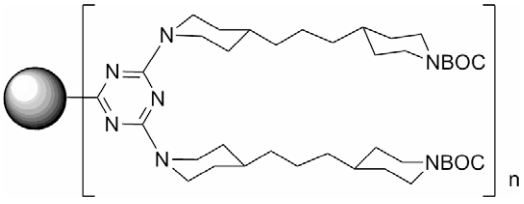
Tetrahedron Letters

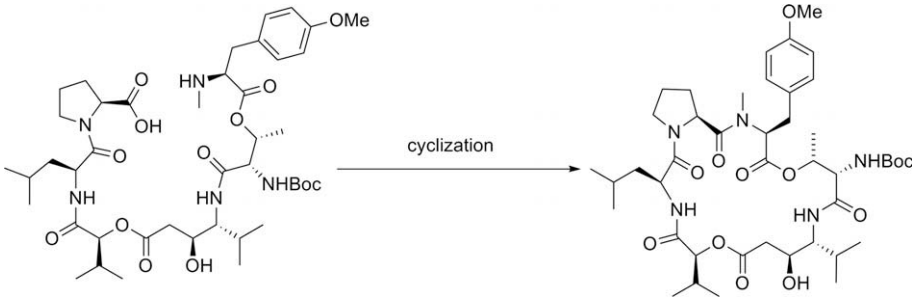
journal homepage: www.elsevier.com/locate/tetlet

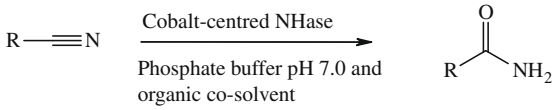
Tetrahedron Letters Vol. 51, No. 13, 2010

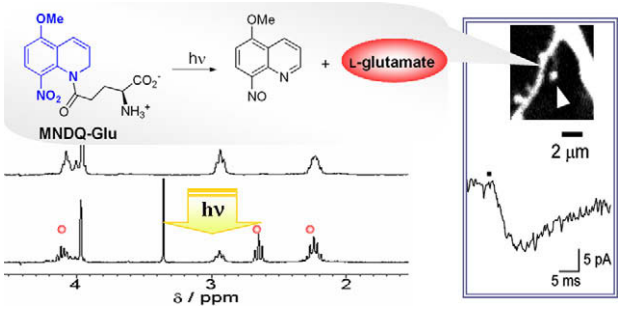
Contents

COMMUNICATIONS

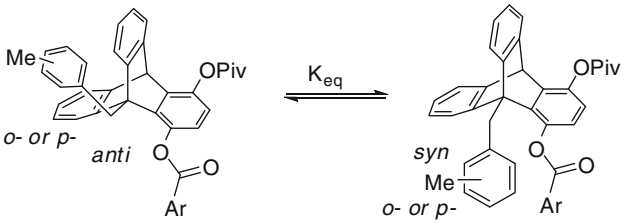






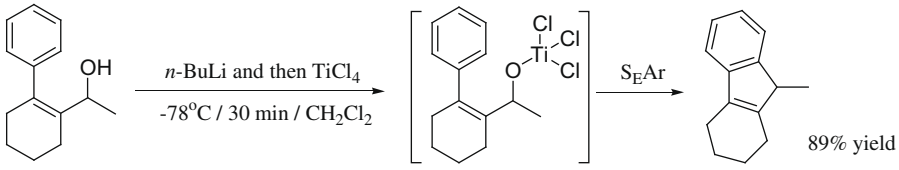


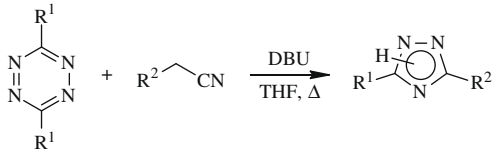
The synthesis, photochemistry, and biological application of 1-acyl-5-methoxy-8-nitro-1,2-dihydroquinoline (**MNDQ**-caged carboxylic acid) are described.



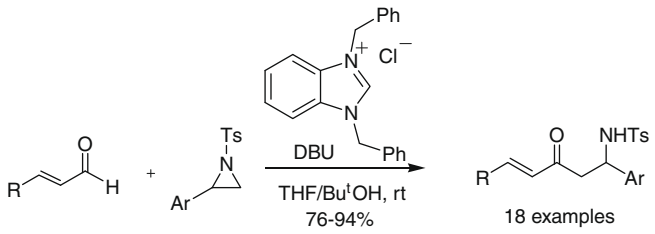
o-Me derivatives (**3a-h**) have a >50% preference for the stacking (*syn*) conformation than *p*-Me derivatives (**4a-h**).

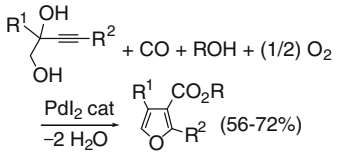
The relative positions of the substituents on the aromatic rings strongly affect the strength of π–π stacking interactions.

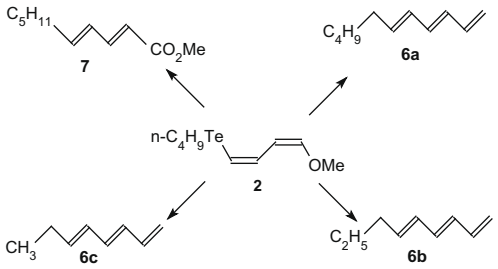


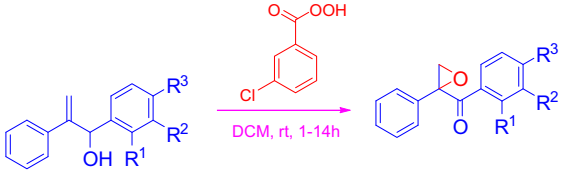


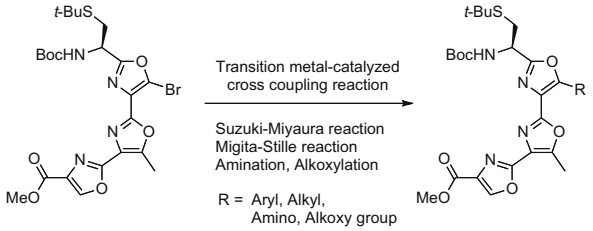
The synthesis of 3,5-disubstituted-(NH)-1,2,4-triazoles from 3,6-diaryl-1,2,4,5-tetrazines and α-substituted acetonitriles under basic conditions is described.

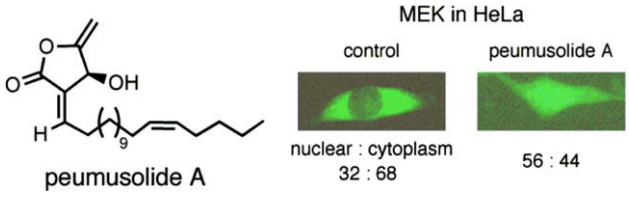




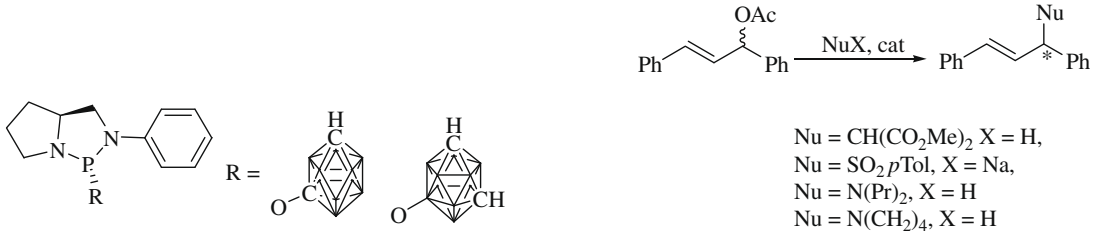


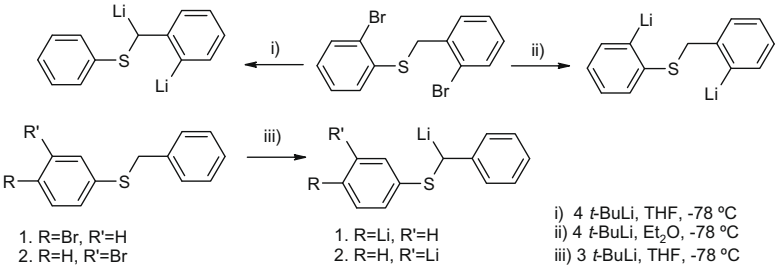


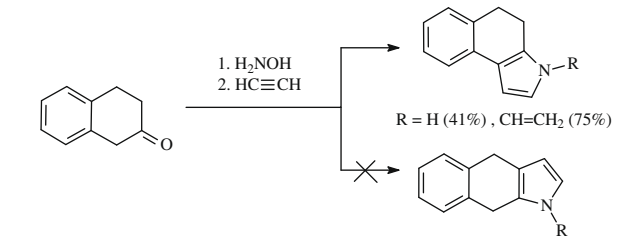




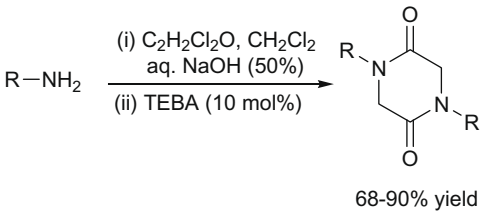
The absolute structure of peumusolide A, an unprecedented NES non-antagonistic inhibitor for nuclear export of MEK was established by spectroscopic and chemical means.



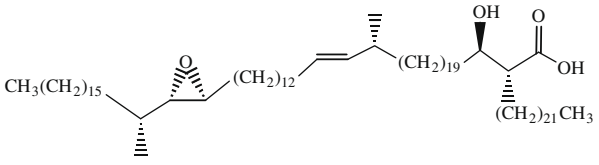


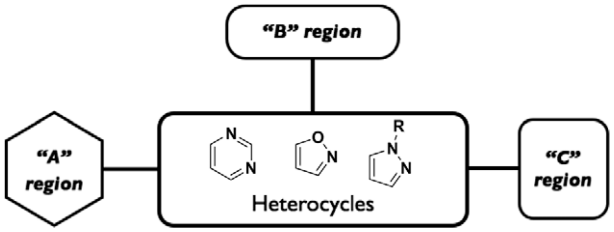


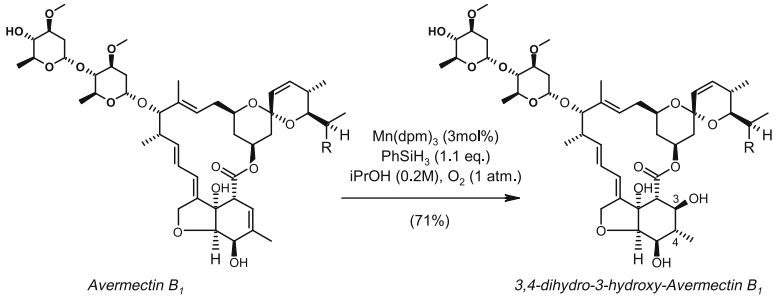
Biocatalytic reduction of 2-fluorocinnamyl alcohols mediated by *Saccharomyces cerevisiae* was investigated in phosphate buffer solutions. Product analysis clearly showed that (*S*)-2-fluoro-3-arylpropanols were afforded in high yields with up to 92% ee.



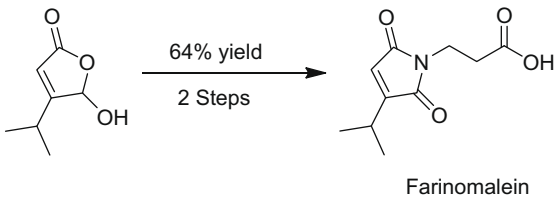
An efficient one-pot synthesis is described for the preparation of 1,4-disubstituted piperazine-2,5-diones starting from a suitable amine and chloroacetyl chloride in the presence of an aqueous base, under phase-transfer conditions.

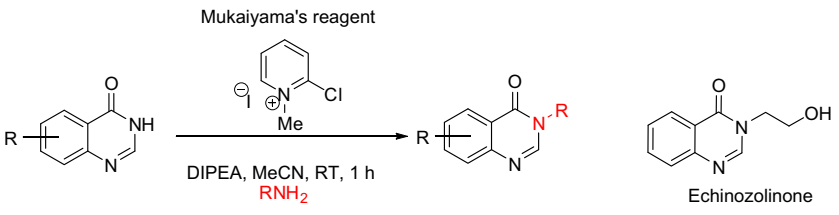


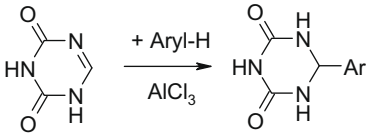


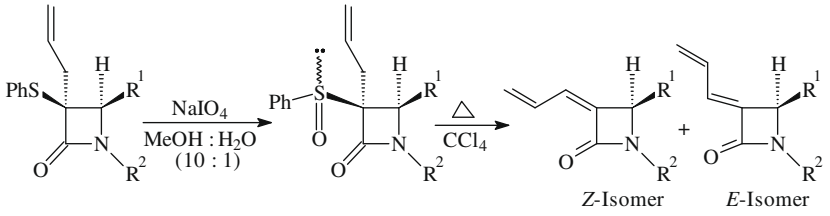


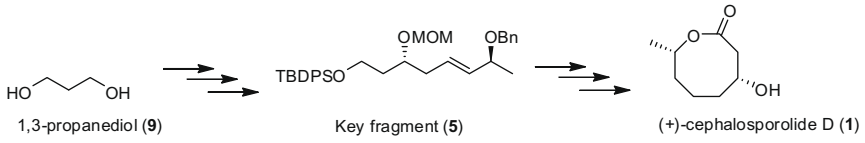
New avermectin derivatives were prepared by Mn(III)-catalysed hydration reaction of different substrates.



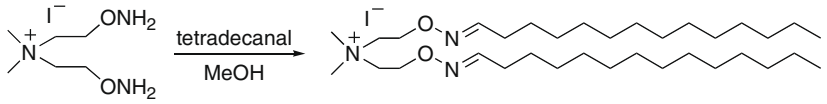




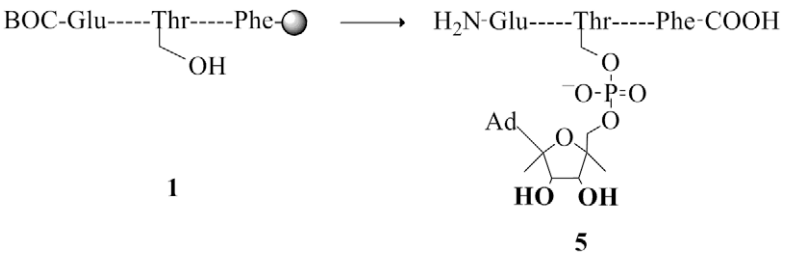


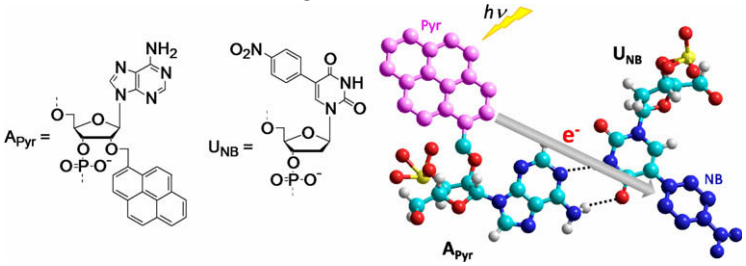


A simple and efficient stereoselective synthesis of (+)-cephalosporolide D is described.

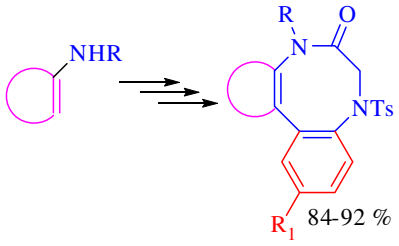


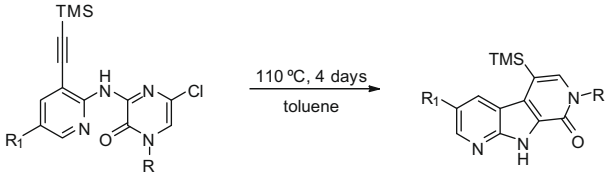
The first aminooxy-based cationization reagents are reported.

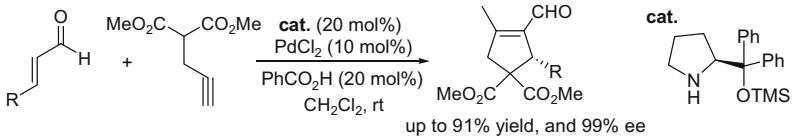


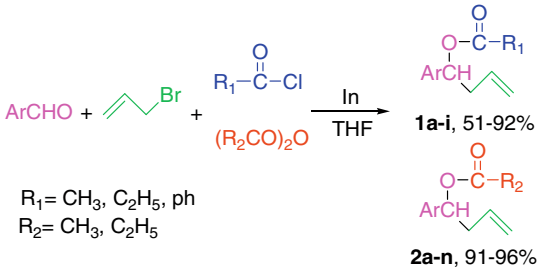


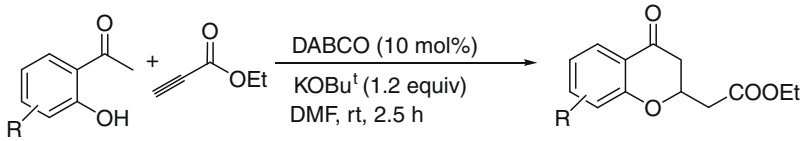
RNA duplexes possessing 2′-*O*-(1-pyrenylmethy)adenosine and 5-(4-nitrophenyl)uridine base pairs were prepared. The RNA duplexes showed very weak fluorescence due to pyrene monomer and excimer emissions, which resulted from the electron transfer from the excited pyrene to the nitrobenzene acceptor.

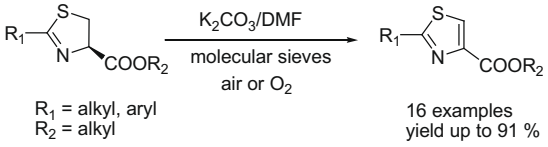


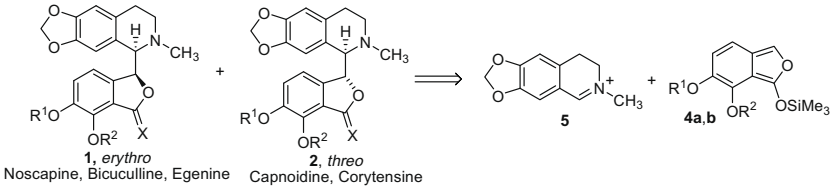




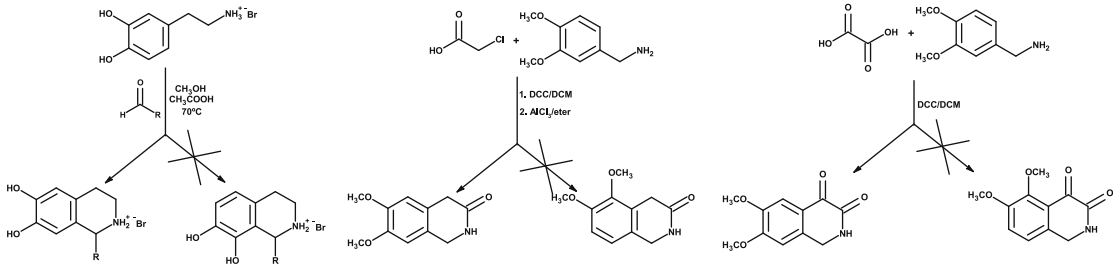


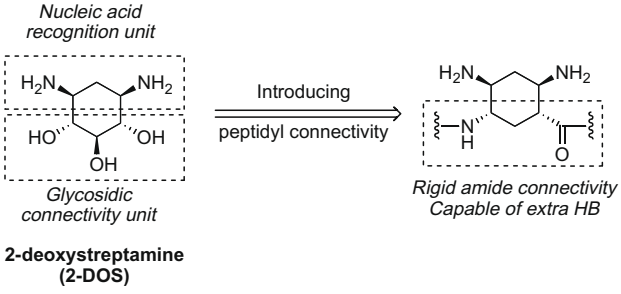


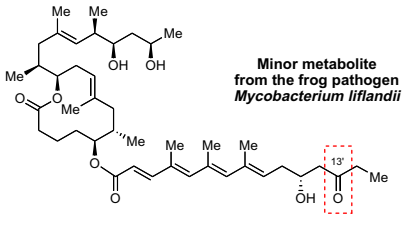


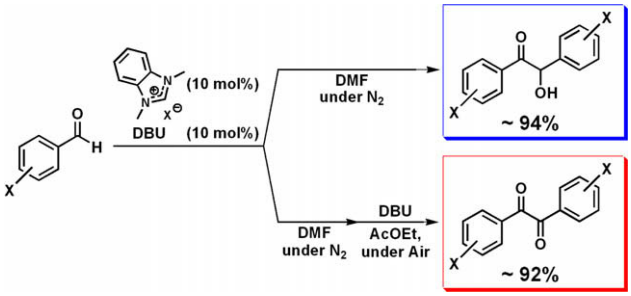


A concise diastereoselective strategy for the syntheses of several isoquinoline alkaloids was developed via a divergent route by the addition of 1-siloxy-isobenzofurans **4a** and **4b** to iminium **5** in a one-pot approach.

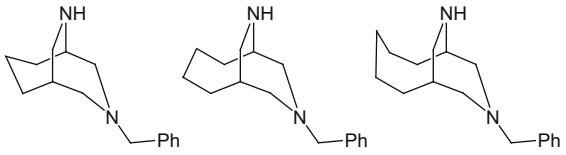


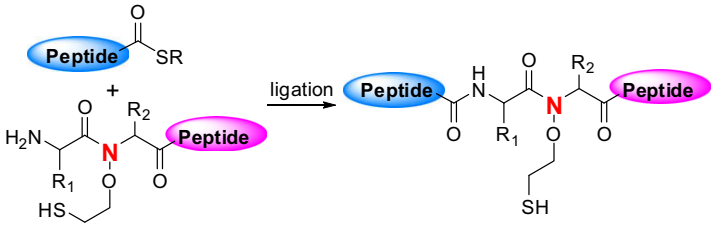


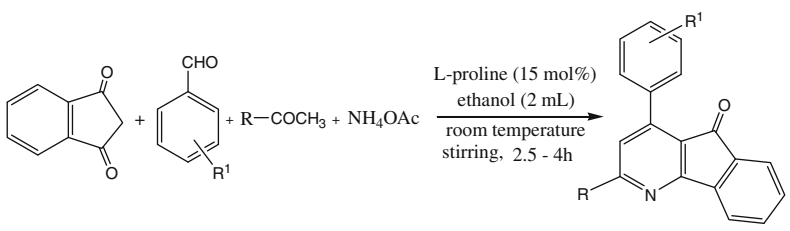


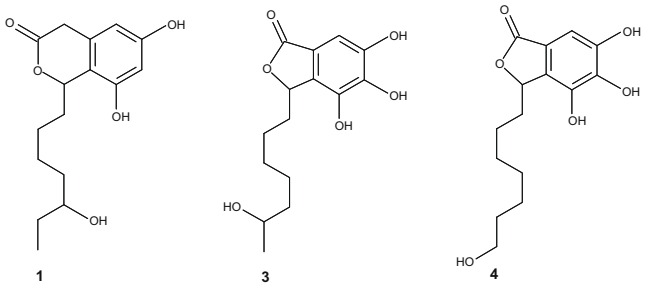


A simple and efficient one-pot procedure for the synthesis of α-diketones from aldehydes via benzoin condensation under the influence of a catalytic amount of azolium salt combined with DBU has been developed.









*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

ELSEVIER

Available online at www.sciencedirect.com
ScienceDirect

ISSN 0040-4039