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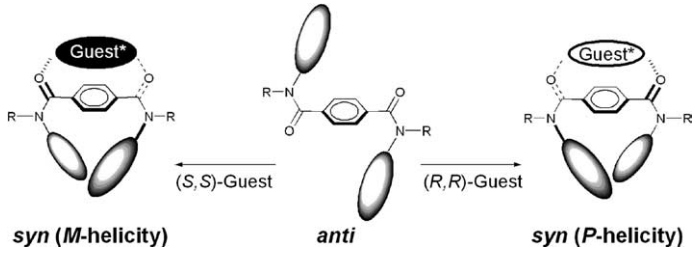
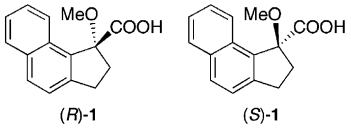
Tetrahedron Letters

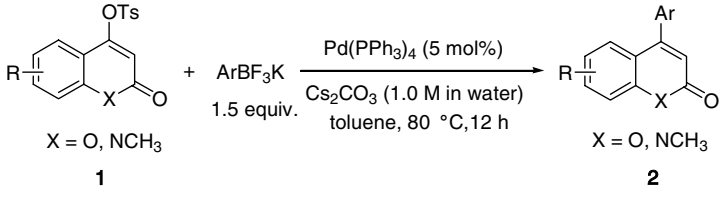
Tetrahedron Letters Vol. 47, No. 10, 2006

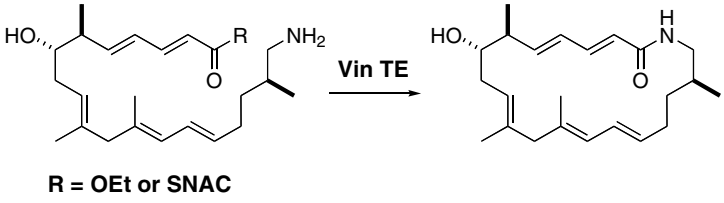
Contents

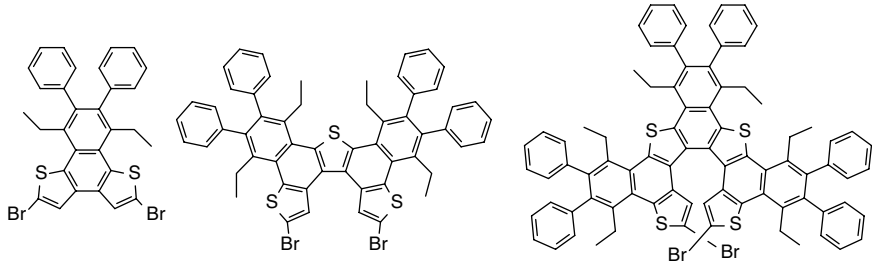
COMMUNICATIONS

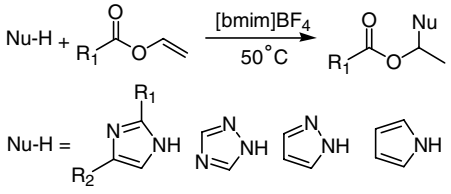




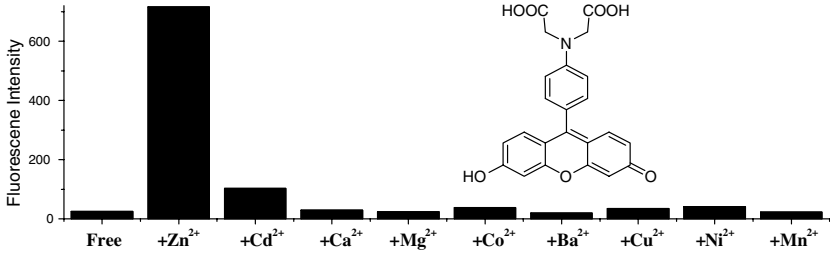


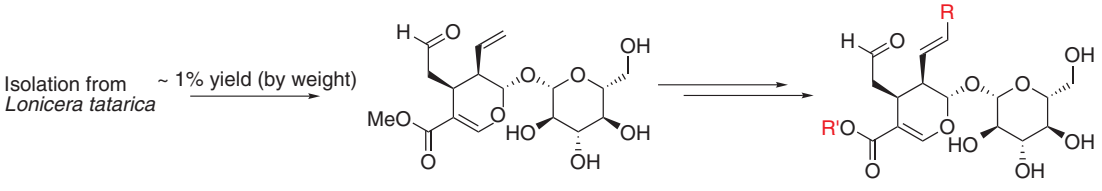




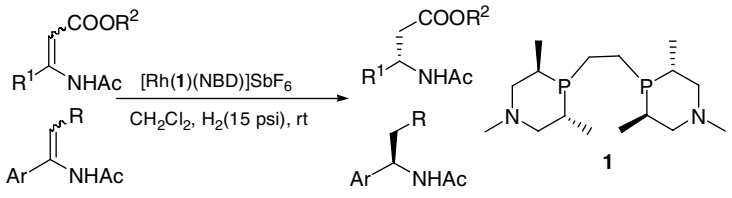


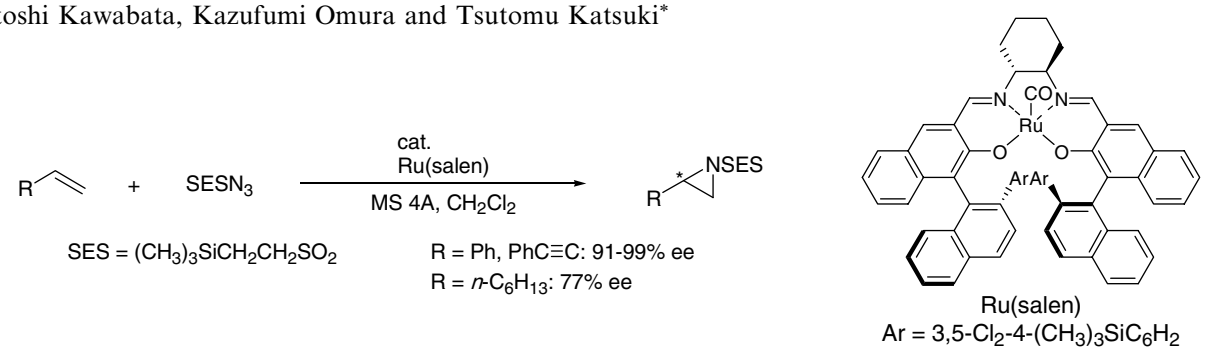
A novel and highly efficient protocol for Markovnikov's addition using ionic liquid as catalytic green solvent is described.

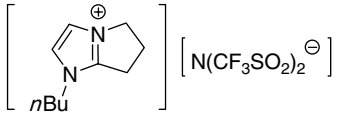




The iridoid natural product secologanin was isolated in good yield from *Lonicera tatartica* and subjected to a series of semi-synthetic reactions in which the ester and vinyl moieties were modified. Secologanin is a key substrate in the terpene indole alkaloid biosynthetic pathway and these derivatives will be used to probe the substrate specificity of the enzymes that comprise this pathway.







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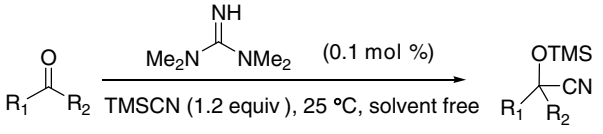
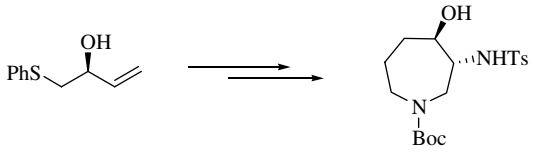
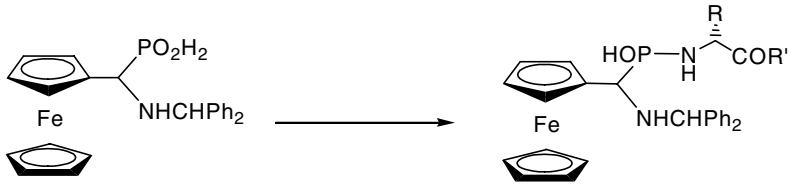
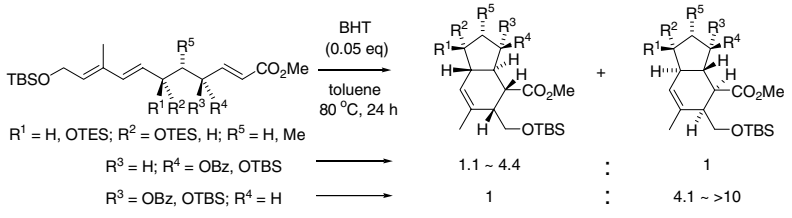
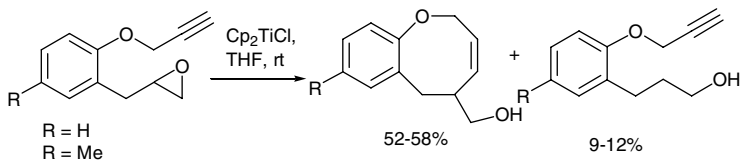


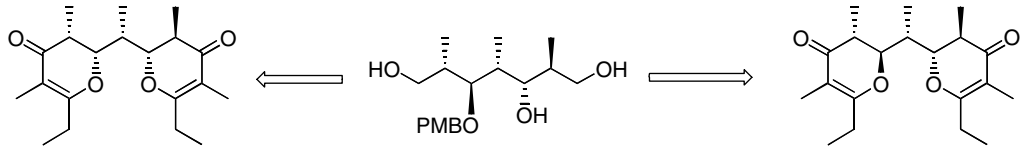


A concise and stereoselective synthesis of (−)-balanol is disclosed.

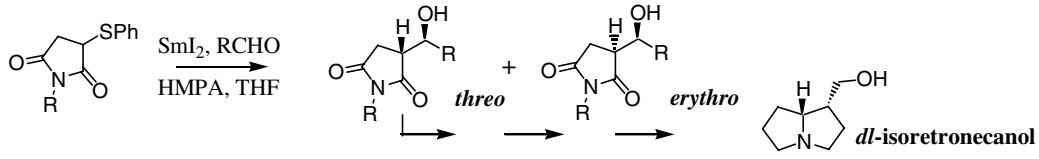


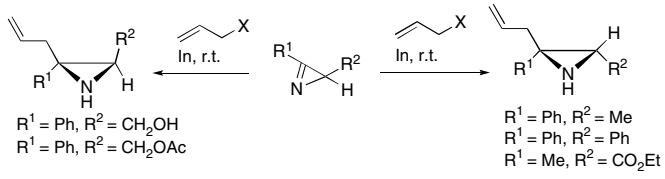


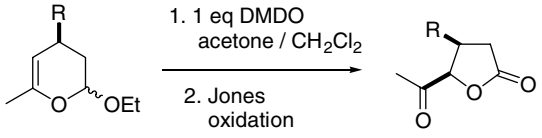


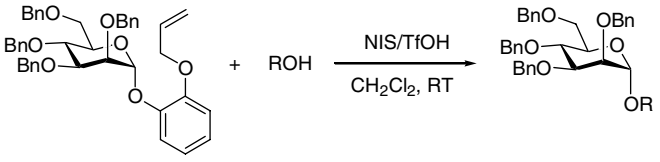


(+)-membrenone C (+)-7-epi-membrenone C

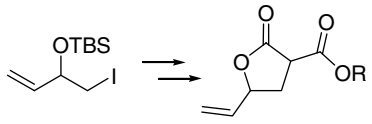


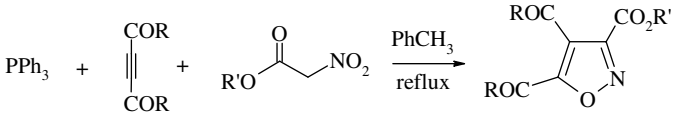


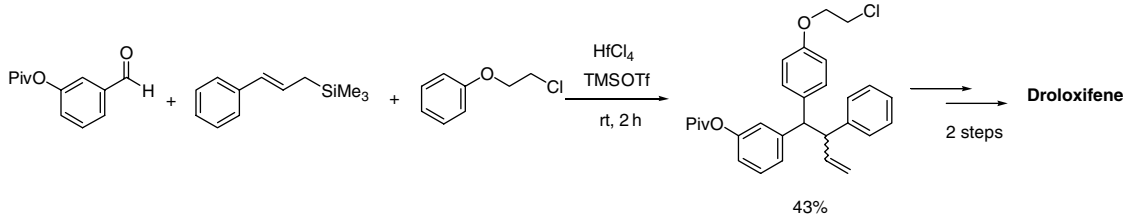




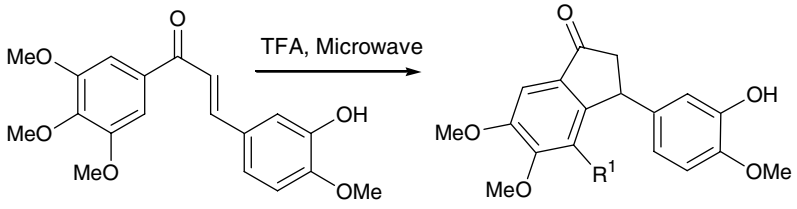
A high-yielding coupling of a new and stable type of glycosyl donors, namely 2-allyloxyphenyl glycoside, with a variety of alcohols via NIS/TfOH reagent combination as effective activators at room temperature is described here.

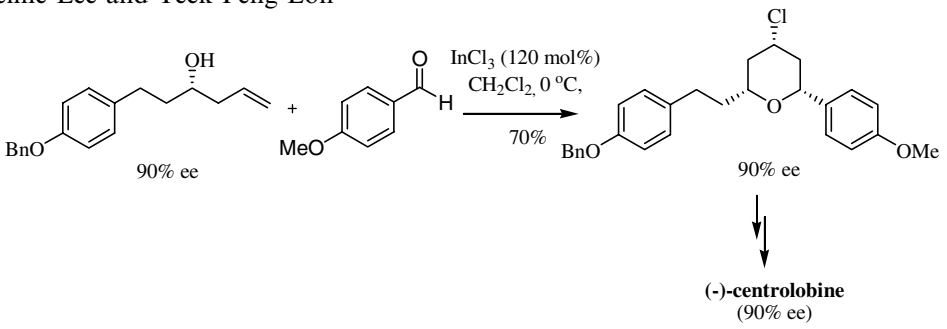


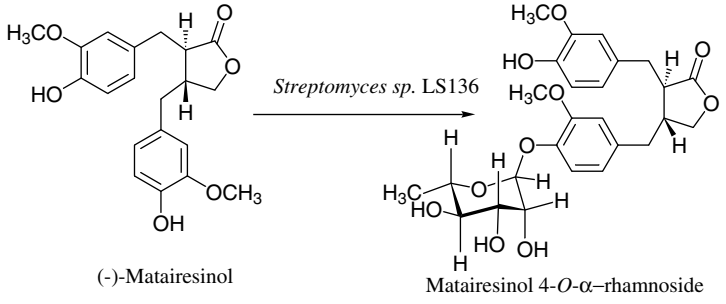


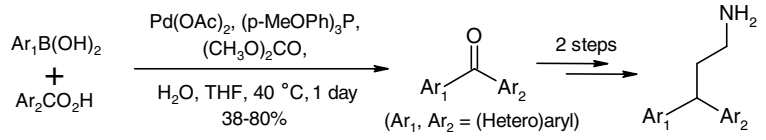


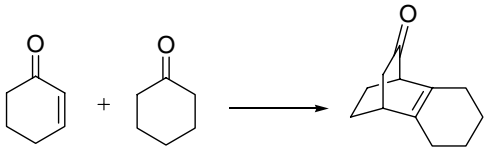
A short-step route for the preparation of droloxifene has been established via the novel three-component coupling reaction, the successive installation of the side-chain part, and the base-induced migration of the double bond.

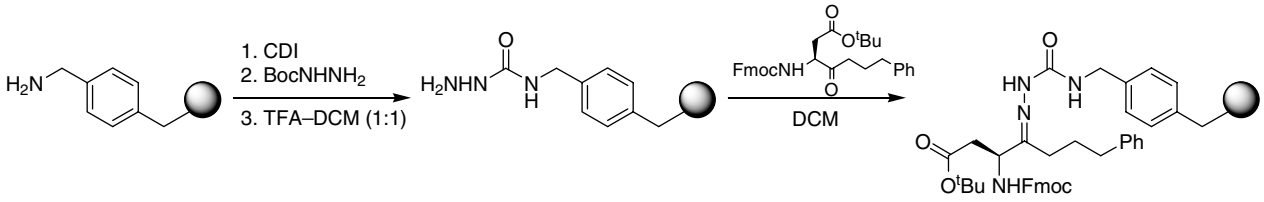




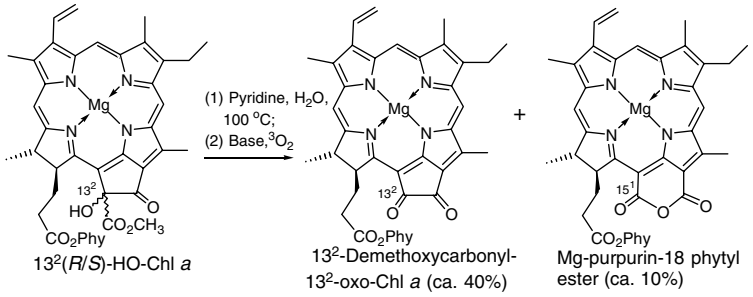


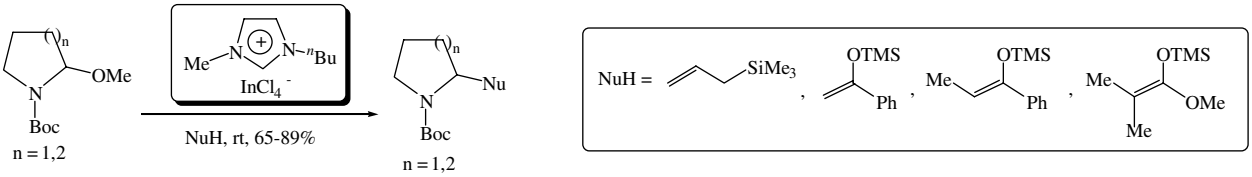


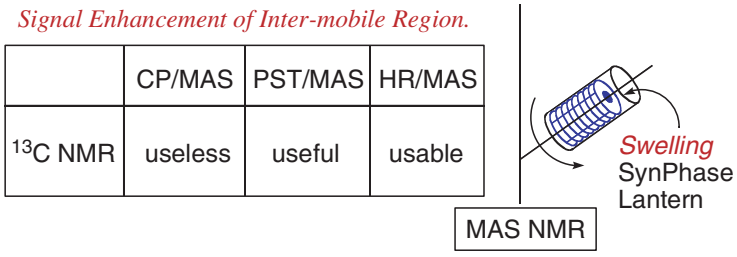




Use of a semicarbazide resin for the solid-phase preparation of peptide ketones and aldehydes led to optimal results in terms of both purity of the final product and overall yield. The resin was prepared without complication by activation of the commercially available aminomethyl polystyrene with CDI at room temperature, followed by treatment with *tert*-butyl carbazate. Furthermore, the TNBSA colorimetric assay has been adapted for checking the incorporation of the carbonyl moiety onto hydrazine-based resins.







OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

A reasonably designed Ru(salen)(CO) complex catalyzes highly enantioselective aziridination of olefins using 2-(trimethylsilyl)-ethanesulfonyl (SES) azide as a nitrene precursor to give the corresponding aziridines. It has been reported by Komatsu et al. that *N*-SES group can be removed without racemization. *Tetrahedron Letters* **2006**, *47*, 1571–1574.

Indexed/Abstracted 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

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ISSN 0040-4039