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Tetrahedron Letters

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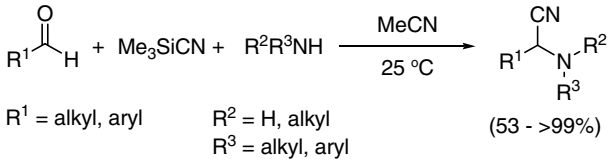
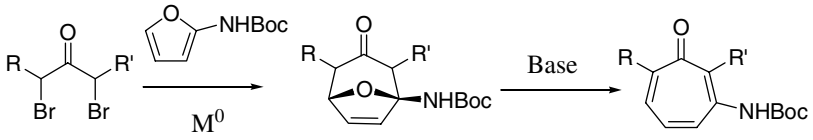
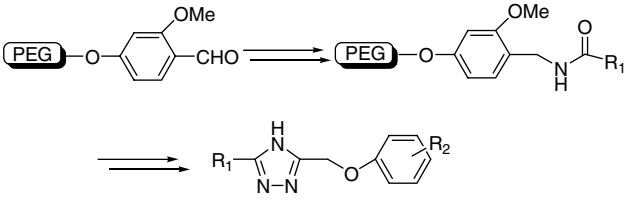
Contents

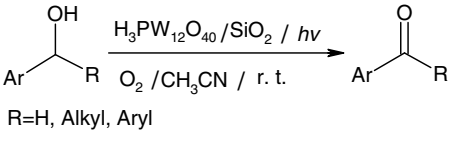
COMMUNICATIONS

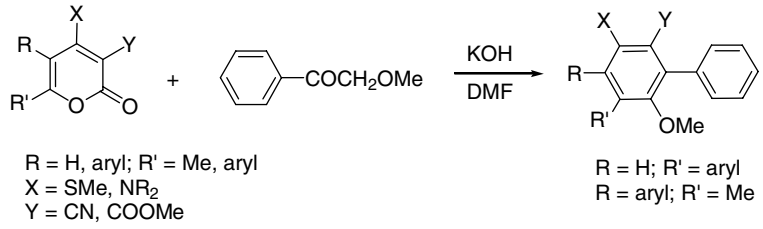


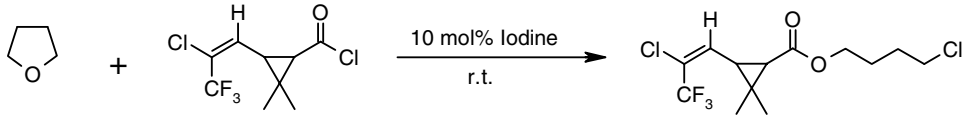


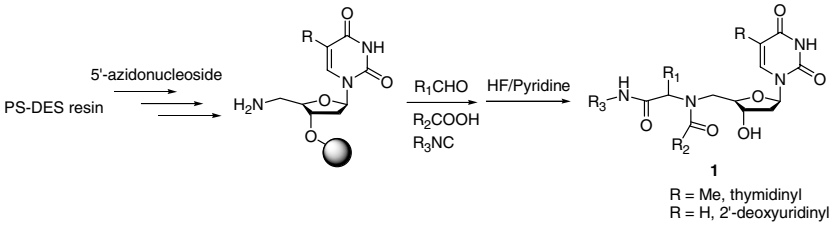
A new synthetic methodology of 3-aminotropones is described. Tropones and 3-aminotroponic building blocks could be prepared by a two steps synthetic pathway: a first step consisting in a [4+3] cycloaddition reaction between a conveniently substituted α,α′-dihaloketone and a furan derivative functionalized on C-2 by a protected amino group. The second step is based on a rearrangement of the cycloadduct, via the oxygen bridge cleavage, under basic conditions.



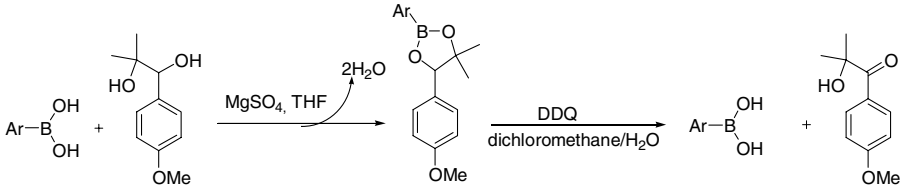




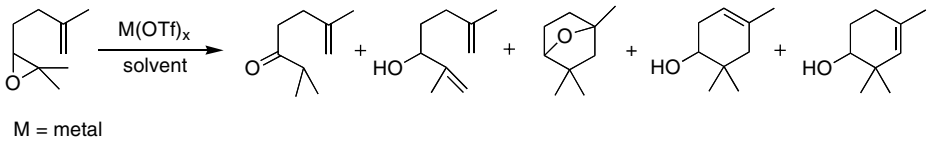


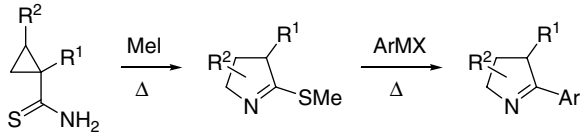


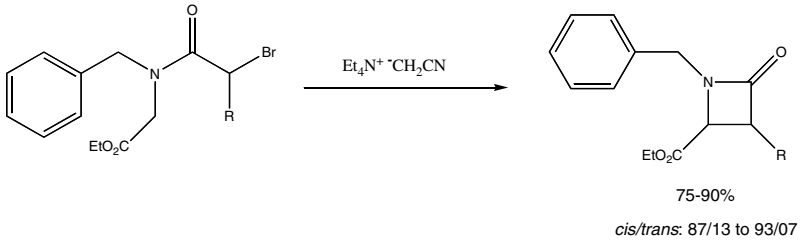
A solid-phase synthesis has been developed to make a thymidinyl and 2′-deoxyuridinyl library starting from 5′-azidonucleosides using Ugi chemistry in 96-well filter plates. A 1344 member library was synthesized for anti-bacterial screening.

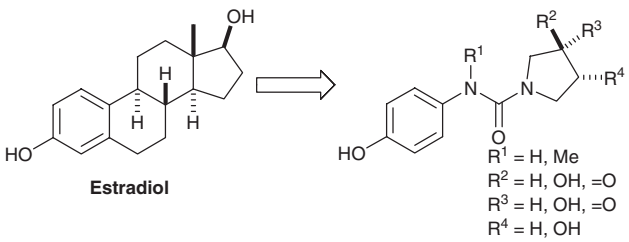


A new boronic acid protecting group, 1-(4-methoxyphenyl)-2-methylpropane-1,2-diol (MPMP-diol), has been developed. Both protection and deprotection can be accomplished under mild conditions with quantitative conversions. The deprotection can be carried out using 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ).

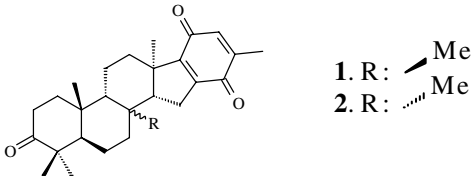


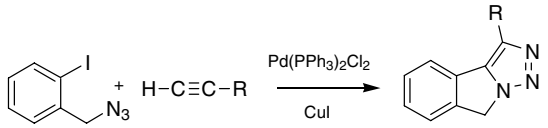




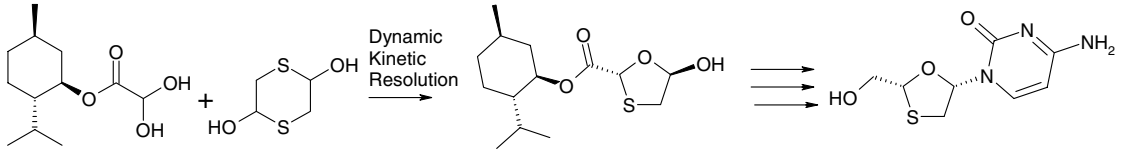


A series of non-symmetrical tri- and tetra-substituted ureas have been prepared to mimic the rigid tetracyclic core of estradiol.

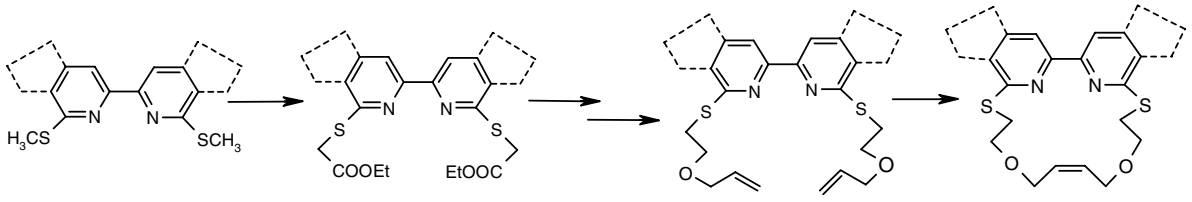


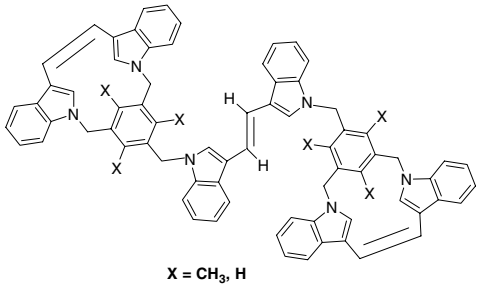


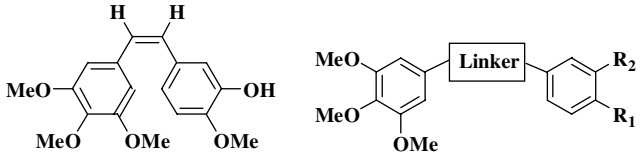
A convenient and general method for the synthesis of isoindoline fused with a triazole through palladium copper catalysis is described.

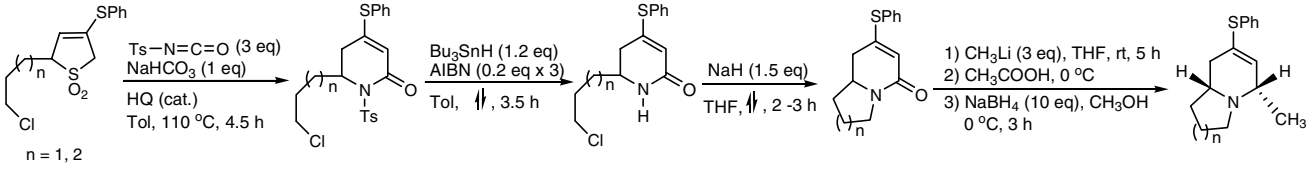


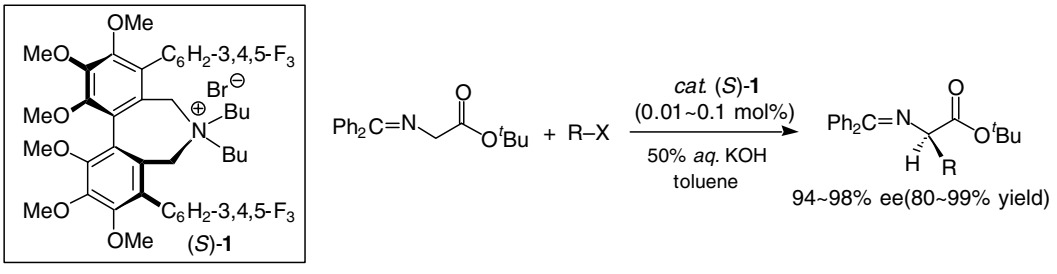
A practical enantioselective synthesis of lamivudine is described, which utilises a dynamic kinetic resolution as the key step to prepare an enantiomerically pure 5-hydroxyoxathiolane.

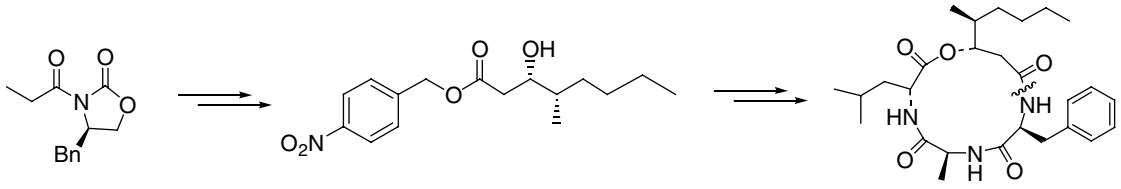




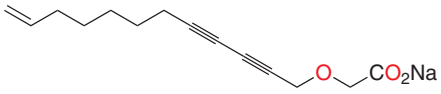




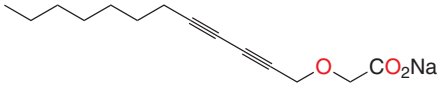




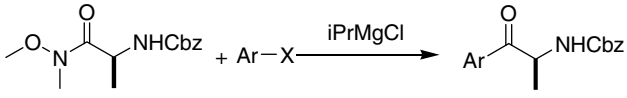
Beauveriolide I



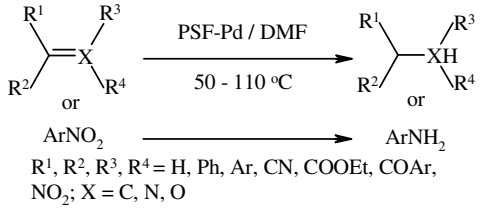
Montiporic Acid C



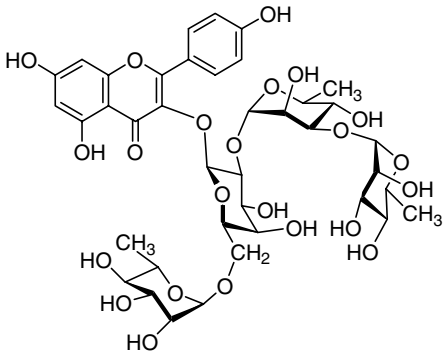
Montiporic Acid A

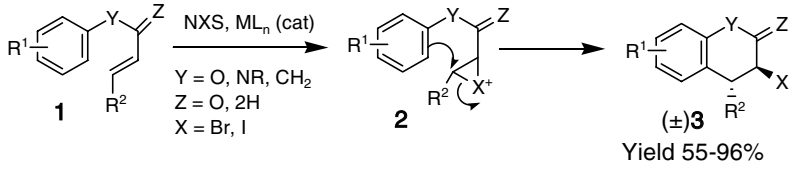


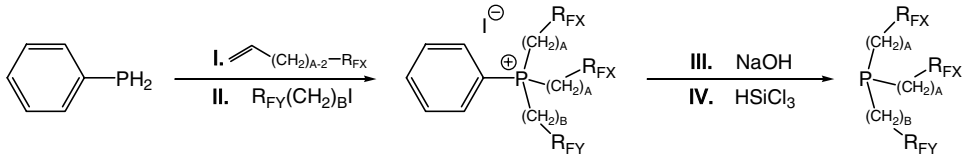
An efficient, convenient, high-yielding synthesis of α-amino ketones is described, involving the one-pot deprotonation–transmetallation–arylation of a Weinreb amide while retaining chirality of the original amide.

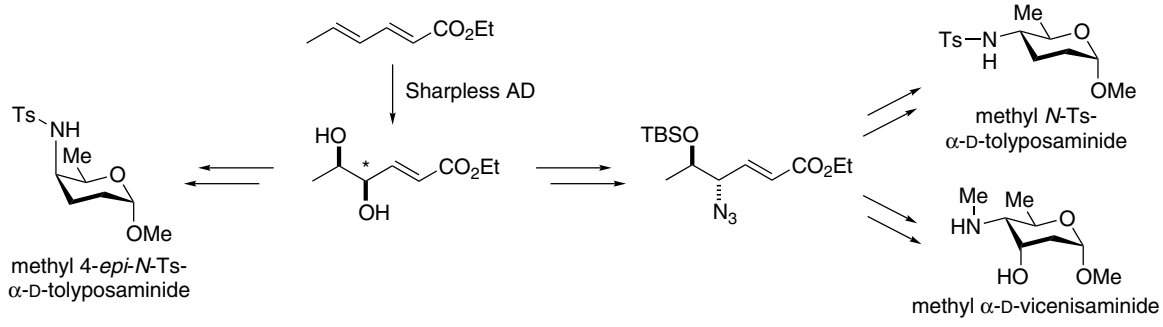


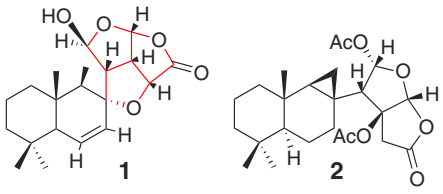
A novel heterogeneous combination of a formate reagent and palladium catalyst immobilized on a resin support has been developed and shown to be highly efficient and recyclable for transfer hydrogenation of alkenes, imines, nitroarenes and 1,2-dicarbonyl compounds.



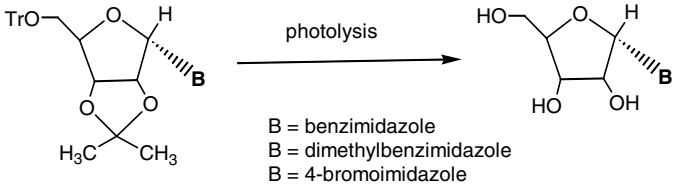








Two new rearranged spongian diterpenes designated omriolide A and B were isolated from a marine sponge. Omriolide A possesses a new heterocyclic system.



Several protected benzimidazole and imidazole α-ribonucleosides were deprotected in excellent yield at ambient temperature using CBr_4 initiated photolysis in methanol at ambient temperature. No selectivity was observed, and both trityl and isopropylidene groups were deprotected under the reaction conditions.

OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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