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Tetrahedron Letters

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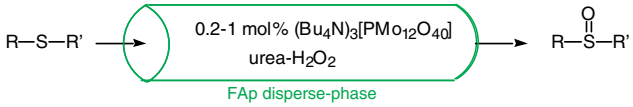
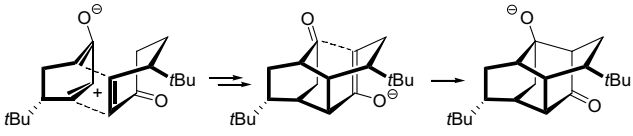
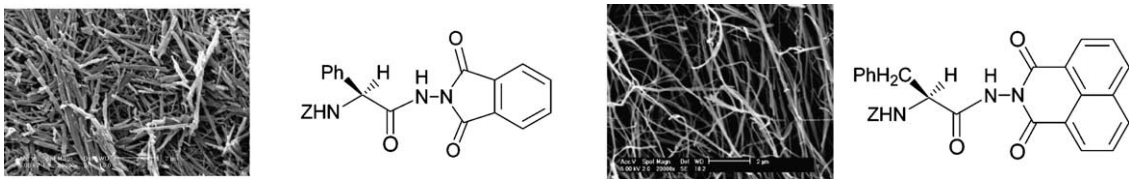
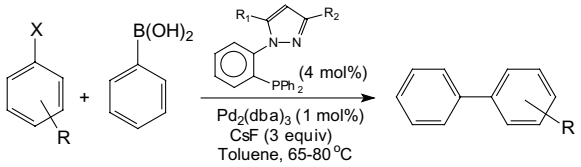
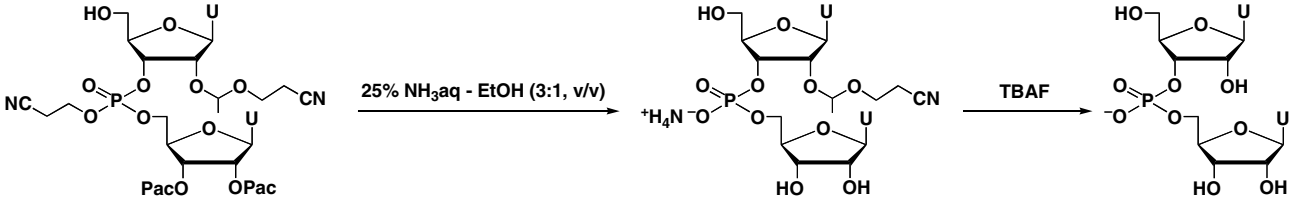
Contents



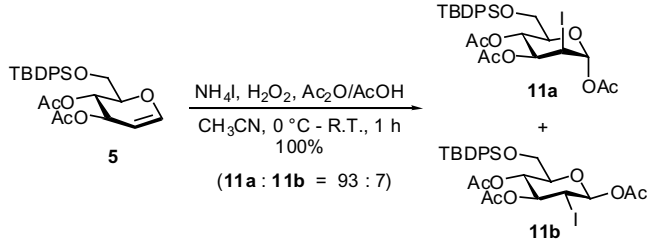


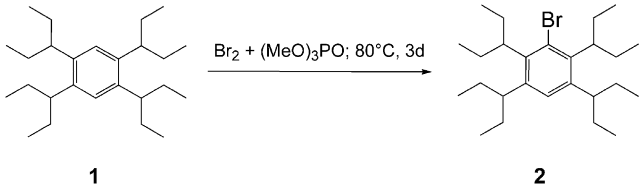




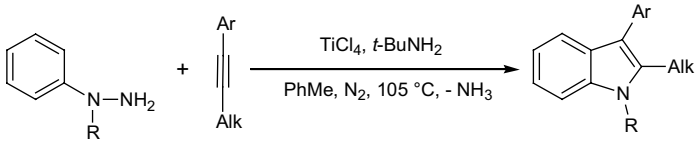


A novel method for the synthesis of oligoribonucleotide using 1-(2-cyanoethoxy)ethyl (CEE) as a 2′-hydroxy protecting group has been developed.

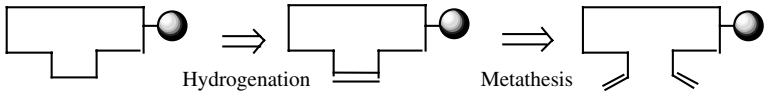




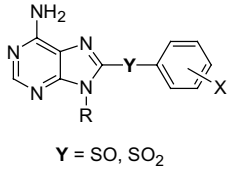
Variable temperature NMR spectra of **2** indicate severely restricted rotation for the groups *ortho* to the bromine.

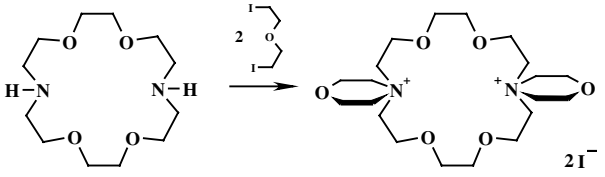


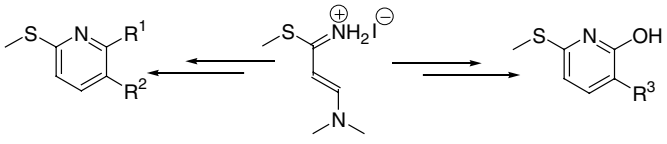
A system comprising $TiCl_4$ and *t*-BuNH_2 converts alkynes and hydrazines directly to the corresponding indoles in a highly regioselective manner and generates substituted pyrroles from a 1,3-diyne and aniline derivatives.

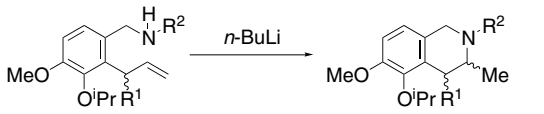


Dicarba analogues of cystine-bridged cyclic peptides are readily prepared via a tandem homogeneous metal-catalysed metathesis–hydrogenation sequence under mild experimental conditions.

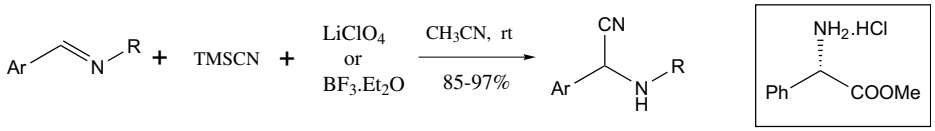




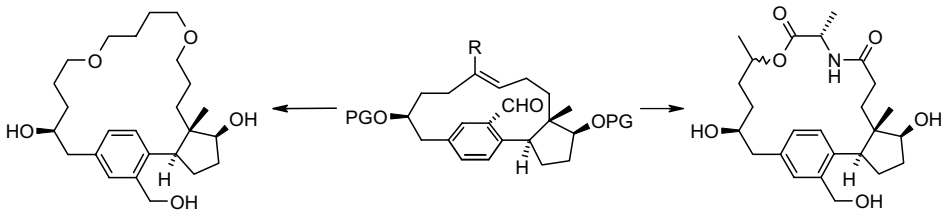


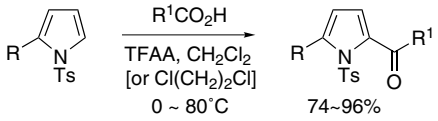


R^1 = H or Me; R^2 = Bn, *n*-Pr, (*R*)-CH(Me)Ph or (*S*)-CH(Me)Ph

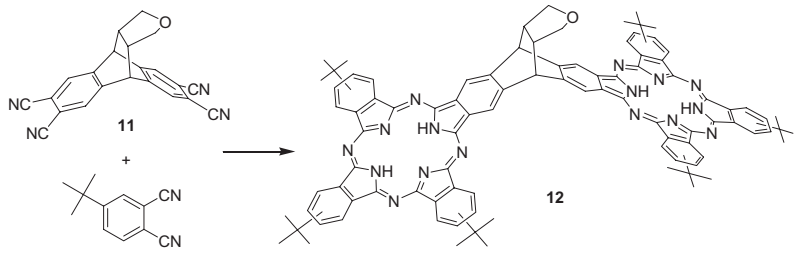


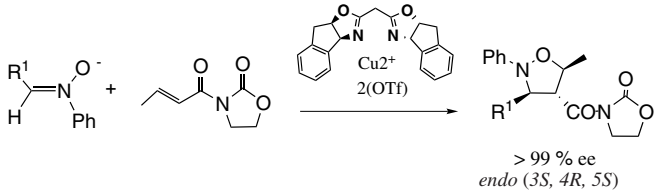
R = tosyl, benzyl, aryl, allyl

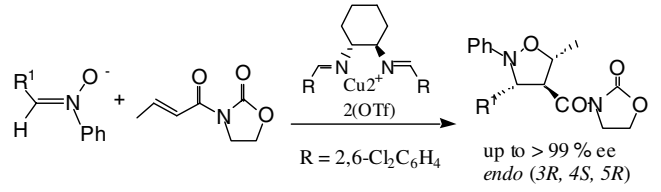


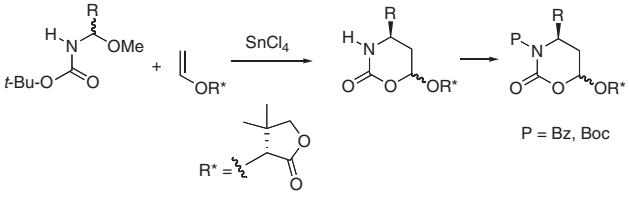


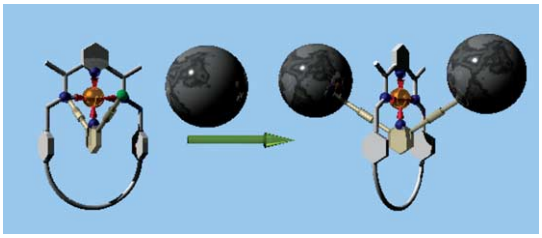
N-Tosylpyrroles can be very efficiently acylated by carboxylic acids in the presence of trifluoroacetic anhydride to give only the 2-acyl derivatives.

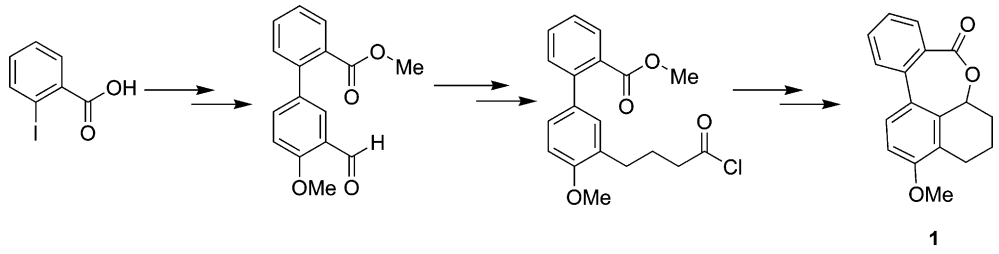




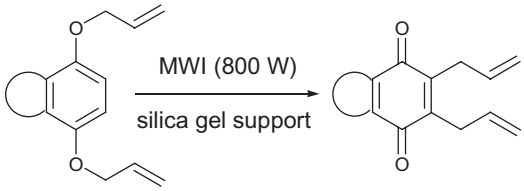


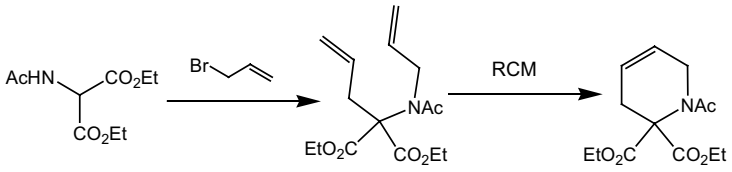


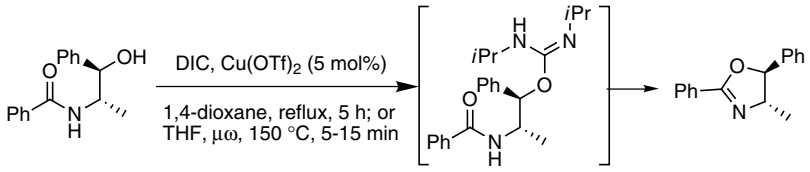




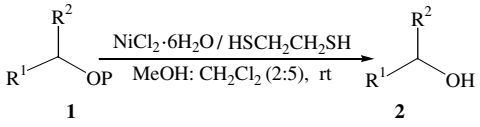
1





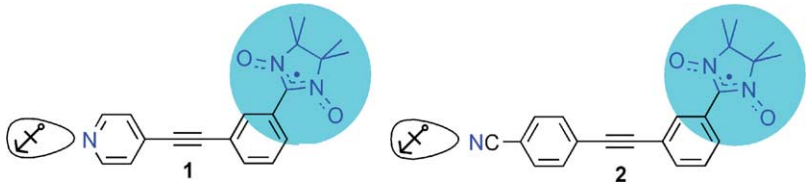


Heating *N*-(β-hydroxyethyl)amides with DIC and $Cu(OTf)_2$ (5 mol%) leads to the formation of 2-oxazolines in good to excellent yields.

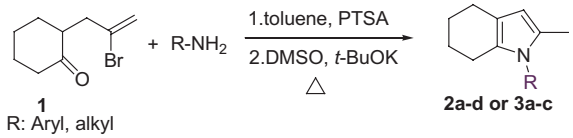


1 **2**

R^1 = alkyl / aryl / sugar residue/ nucleoside residue
R^2 = H, alkyl; P = THP/TBS

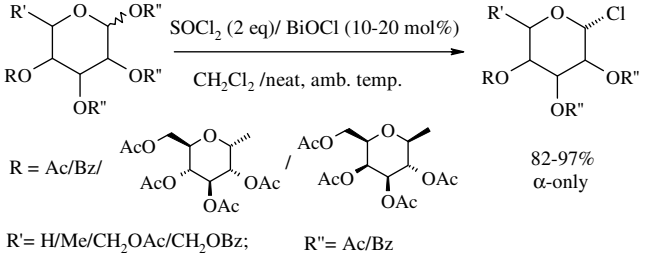


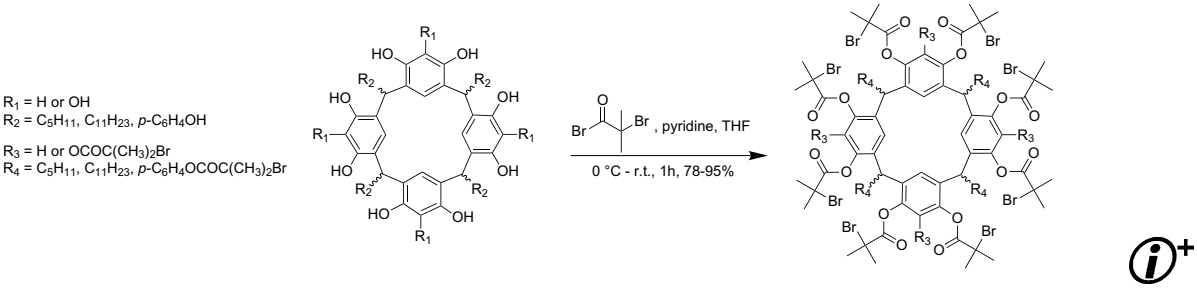
Two reaction pathways have been used for the synthesis of new paramagnetic conjugated molecules bearing a nitrogen-based anchoring group. Both compounds are obtained in good yields and spin concentrations.

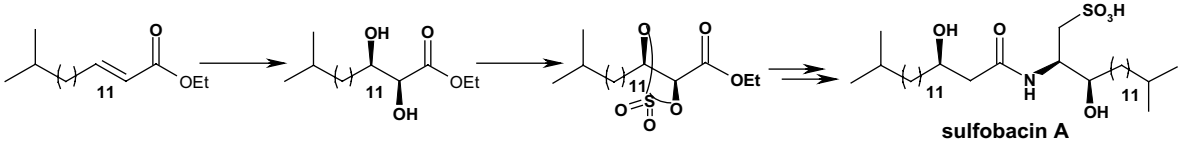


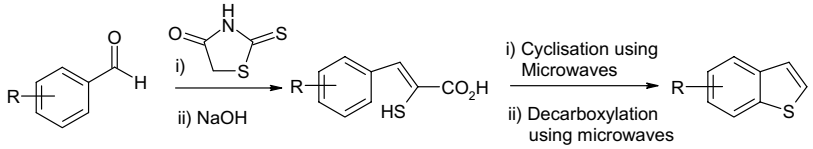
1
R: Aryl, alkyl

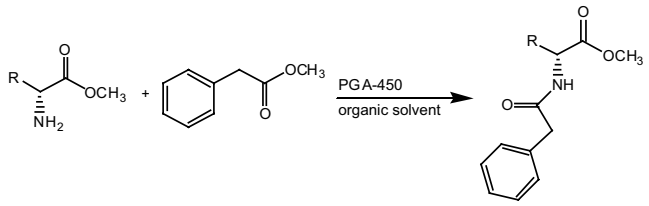
2a-d or 3a-c



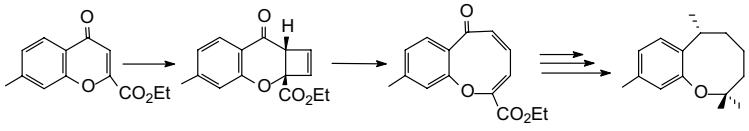


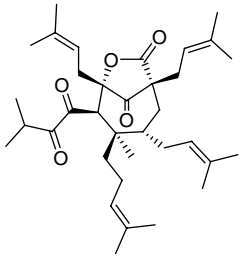


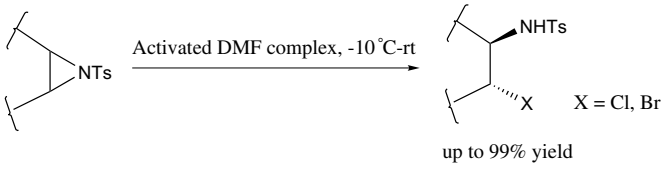




A quantitative method for enzymatic protection of esters of various D-amino acids in organic solvent is reported.







OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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