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Tetrahedron Letters

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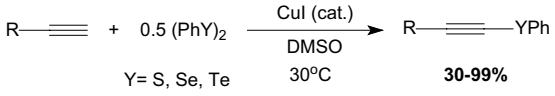
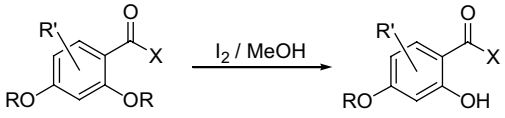
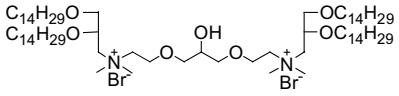
Contents

COMMUNICATIONS

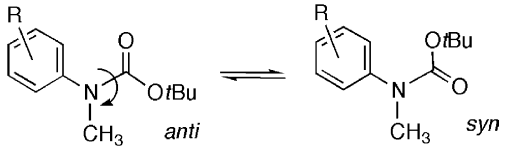


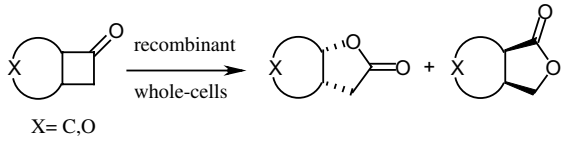


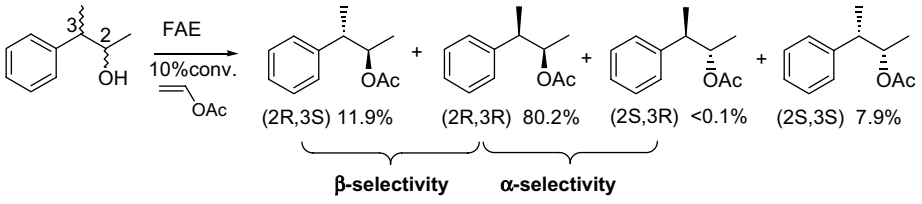
R = CH_3OCH_2, 4-$MeOC_6H_4$
X = Me, OR, OH, NHR

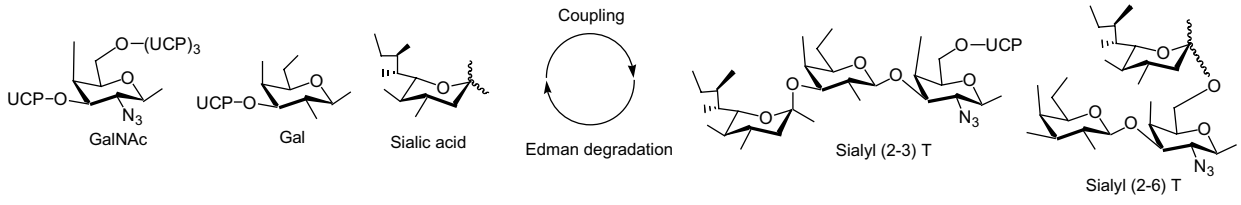


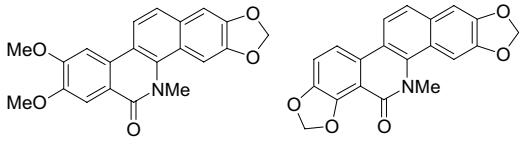
Cationic cardiolipin analogue



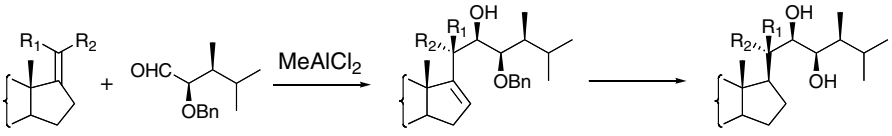


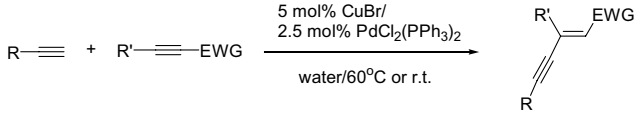


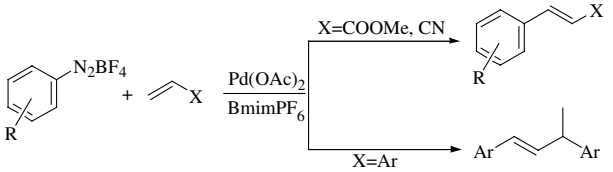




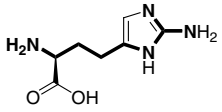
Benzo[*c*]phenanthridine alkaloids oxynitidine and oxysanguinarine were efficiently synthesized via toluamide–benzonitrile cycloaddition reaction in six steps.



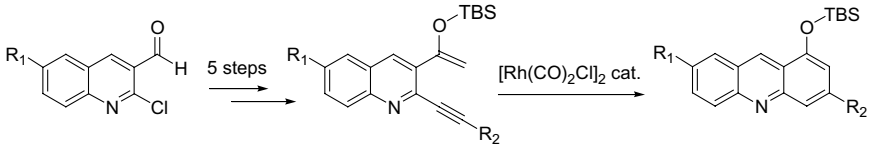


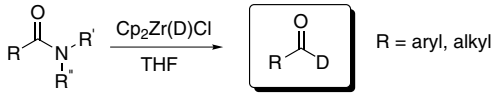


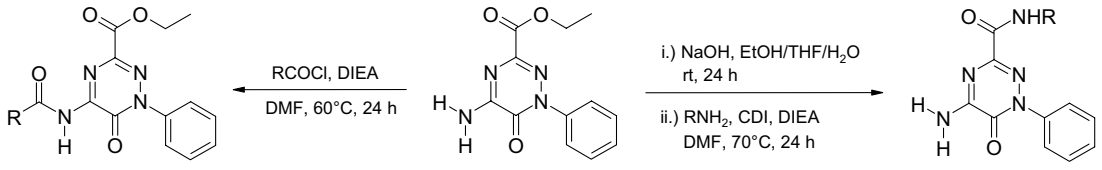
The palladium-catalyzed reactions of olefins with arenediazonium salts in ionic liquids were investigated. For methyl acrylate and methyl acrylonitrile, normal Heck cross-coupling products are obtained in good yields. However, highly selective dimerization products are formed in excellent yields for styrenes. The catalyst system can be recycled.

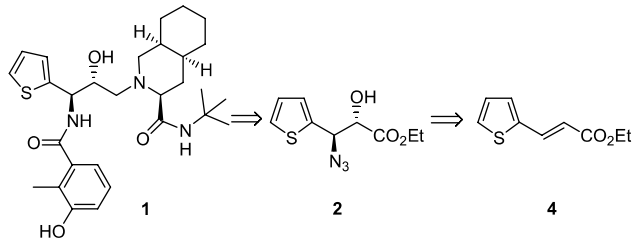


A short synthesis of L-aminohomohistidine (L-Ahh) is described, which starts from readily available δ-hydroxy-L-lysine. The embedding of the basic guanidino moiety in the aromatic imidazole lowers the basicity of the side chain to a pK_a of 8.3. It is proposed that L-Ahh may be employed as an arginine-mimetic in medicinal chemistry.

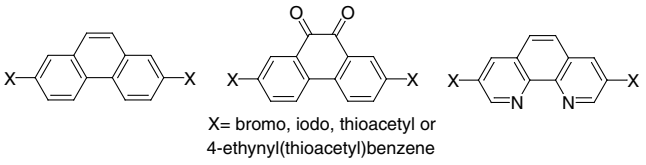


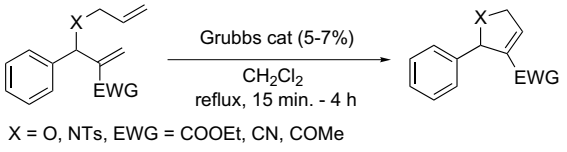


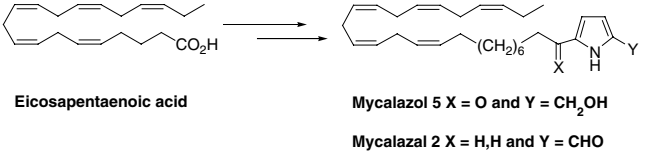


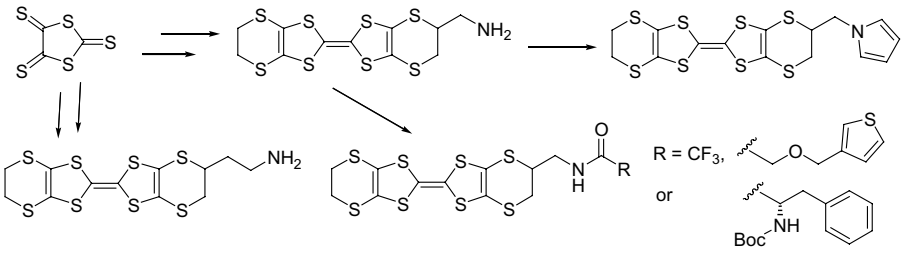


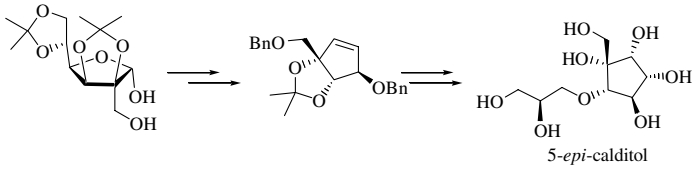
A stereoselective and efficient preparation of a thiophene containing intermediate **2** from ethyl 3-thienyl propenoate **4** as the core of new possible HIV protease inhibitors is described.

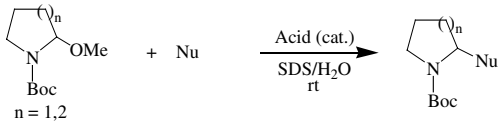


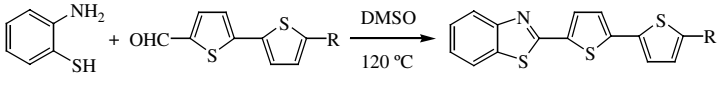


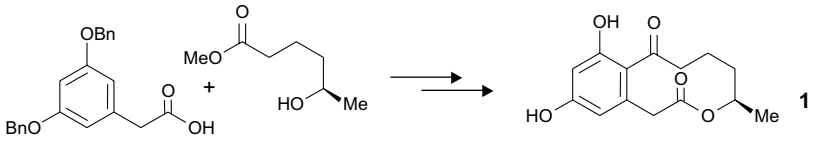




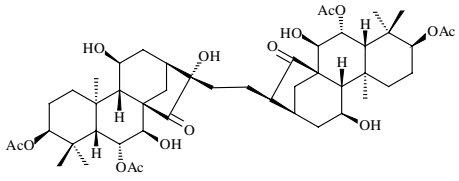




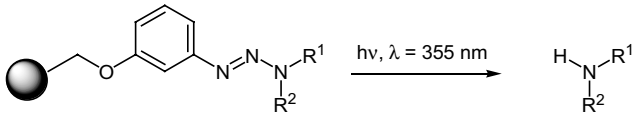


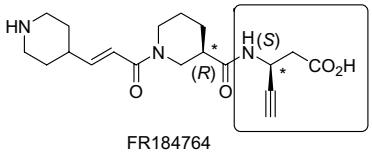


The fungal metabolite xestodecalactone A (**1**) has been synthesised as a racemate and in both enantiomeric forms. Comparison by CD spectroscopy and HPLC on a chiral phase showed the natural product to possess the (*R*)-configuration.



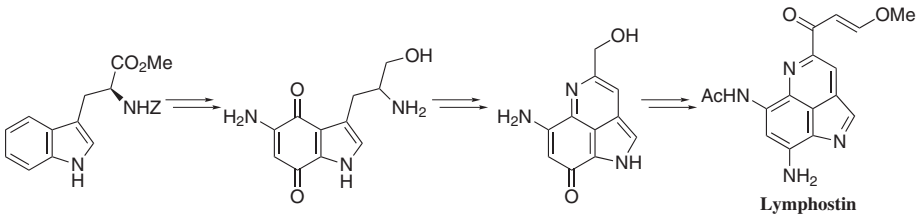
Three novel chiral *ent*-kaurane dimers, xindongnins M–O were isolated from *Isodon rubescens* var. *rubescens*, all characterized by the unique linkage of a single carbon–carbon bond between two subunits.

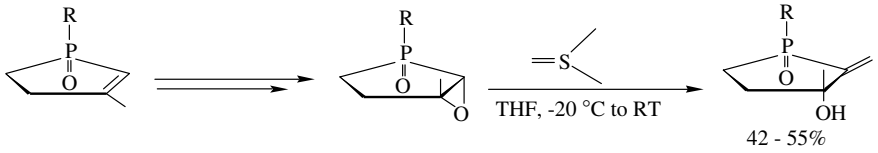




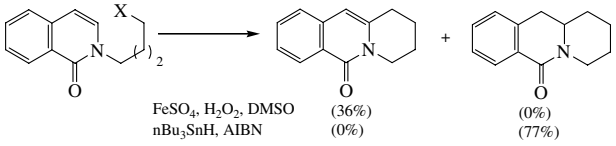
FR184764

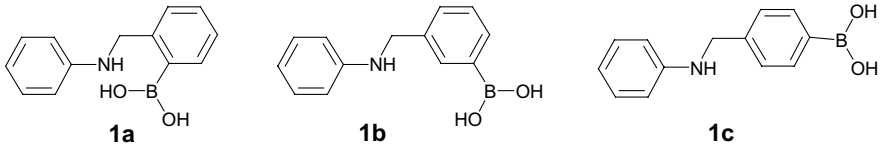
An efficient synthesis of the orally-active GpIIb/IIIa antagonist FR184764 was achieved. The key intermediate, an optically active ethynyl β-amino ester, was synthesized efficiently by utilizing a lipase catalyzed kinetic resolution step.

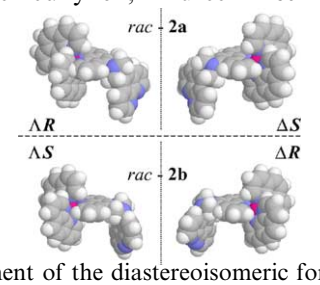




A novel method has been developed in the synthesis of C-2 homologated allylic alcohols of phospholane oxides from the corresponding *erythro*-2,3-epoxy-3-methylphospholane 1-oxides.







Structural elucidation by ^{1}H NMR and passignment of the diastereoisomeric forms of a novel Ru(II) complex bearing a chiral 'V'-shaped Trogër's base is reported.

OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

At the heart of the total synthesis of lymphostin, a novel immunosuppressant, are six kinds of regioselectively oxidative reactions from tryptophan. See *Tetrahedron Letters* **2004**, *45*, 2847–2850.

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