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Tetrahedron Letters

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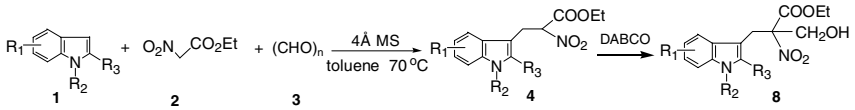
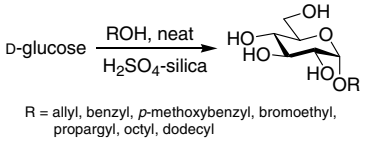
# Contents

## COMMUNICATIONS

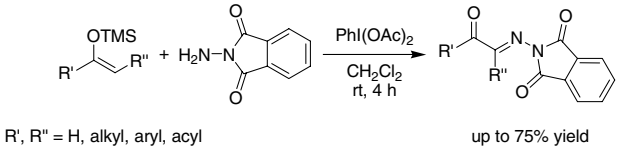



An efficient method for the synthesis of tryptophan analogues has been developed via one-pot reaction of commercial available indoles, ethyl nitroacetate and paraformaldehyde in the presence of molecular sieves. The reaction provided tryptophan nitro-precursors in moderate to good yields, which were further converted to α-hydroxymethylated tryptophan derivatives catalyzed by DABCO in high yields.

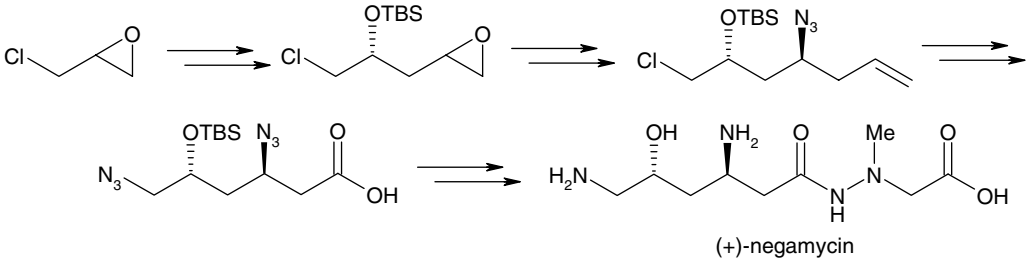


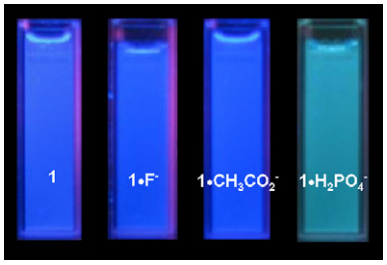




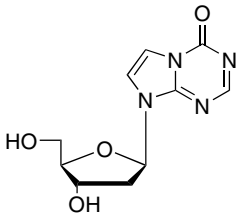





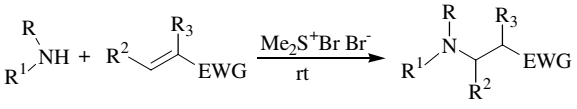





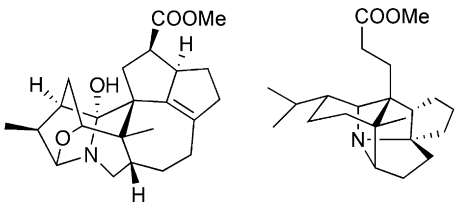


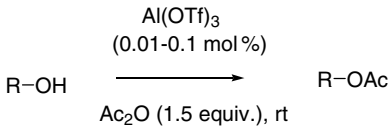


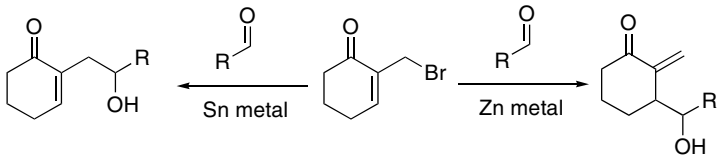


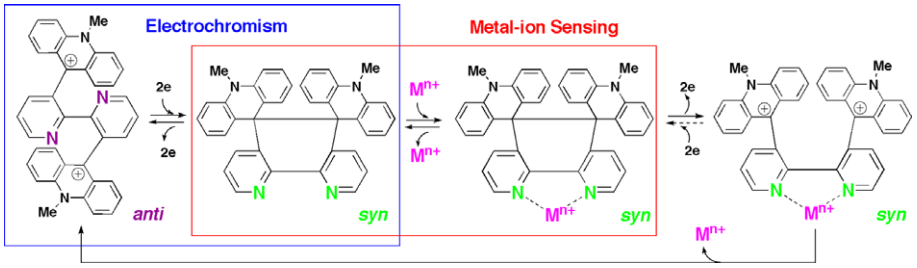

calyciphylline E calyciphylline F



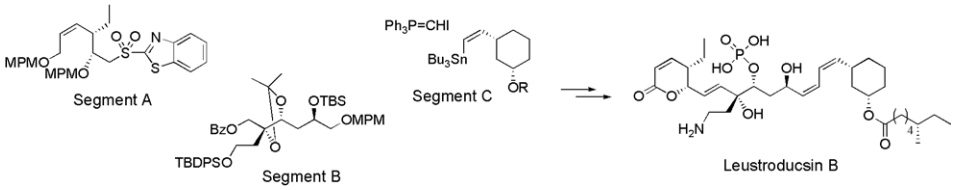


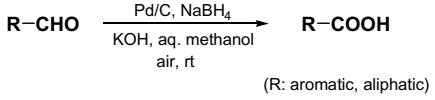


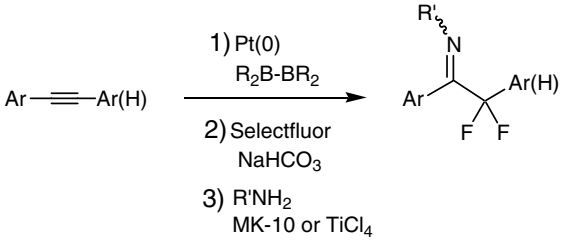



Leustroducsin B was synthesized via a three segments coupling procedure.

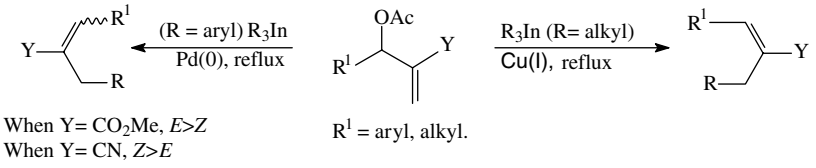




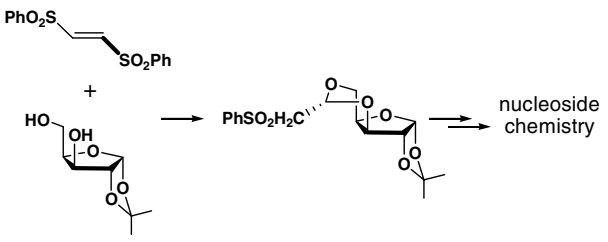




A selective and simultaneous synthesis of adjacent CN and $CF_2$ functional groups from alkynes through vicinal C–B bonds.

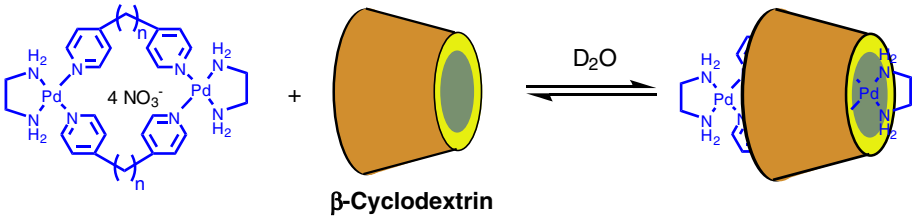




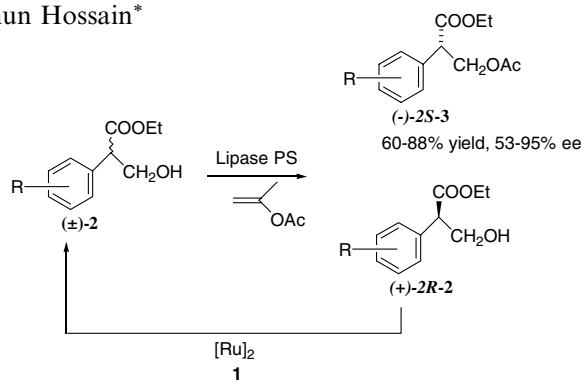


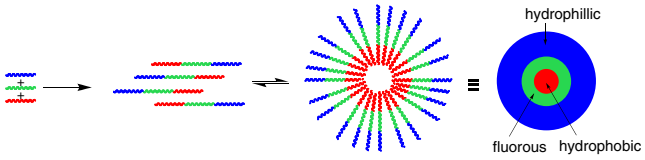

The use of phenylsulfonylethylidene (PSE) acetal as a protective group in nucleoside chemistry is reported.



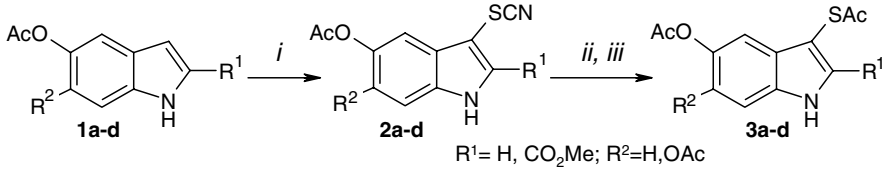


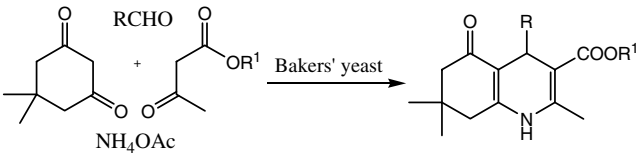


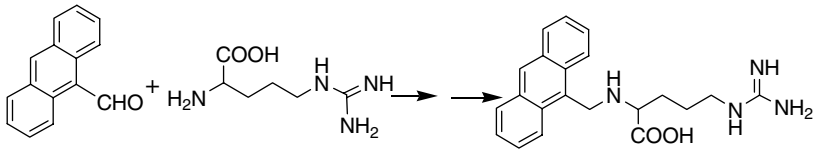


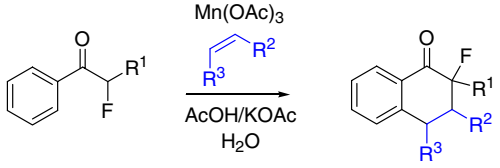

Reagents: (i) $NH_4SCN$/oxone, molar ratio 1:1.2; (ii) $SmI_2$; (iii) $Ac_2O$.



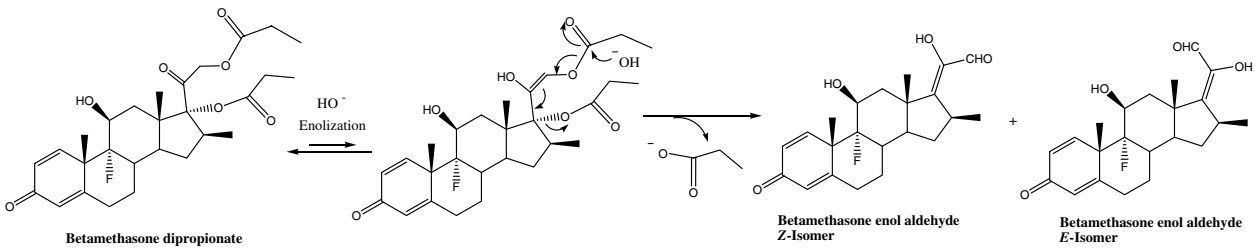


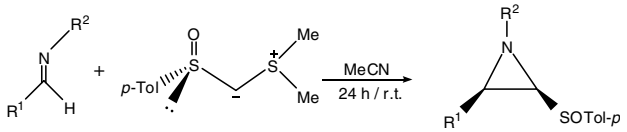





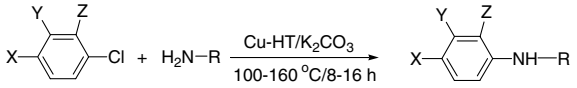





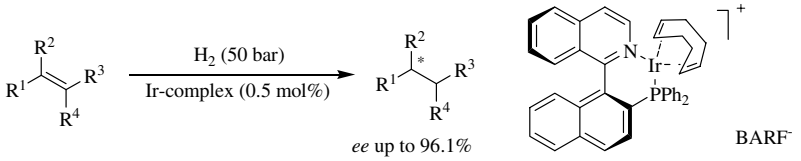





X-$NO_2$, Y-H, Z-H, **1a**; X-H, Y-H, Z-$NO_2$, **1b**; X-CHO, Y-H, Z-H, **1c**
X-CHO, Y-Cl, Z-H, **1d**; X-COOH, Y-H, Z-H, **1e**; X-H, Y-H, Z-CN, **1f**
X-CN, Y-H, Z-H, **1g**; R-benzyl, cyclohexyl, cyclopentyl

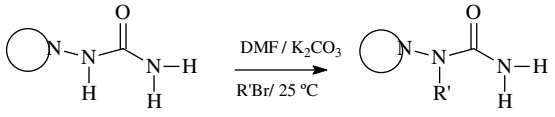




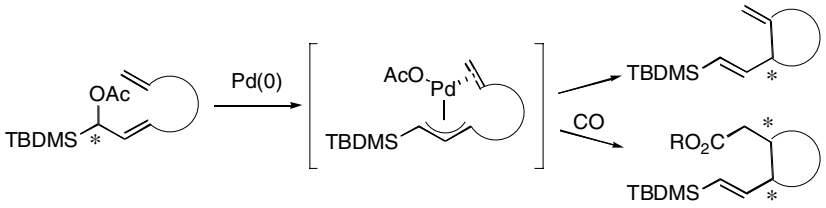

*ee* up to 96.1%

Ir-complex






The treatment of hydrazones/hydrazides in the presence of alkyl halides in an aprotic medium brings about highly and efficient regioselective N-alkylation to produce the corresponding *N*-alkyl derivatives.




## OTHER CONTENTS



*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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