ELSEVIER

Tetrahedron

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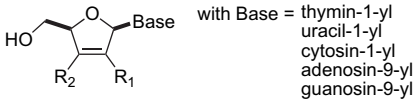
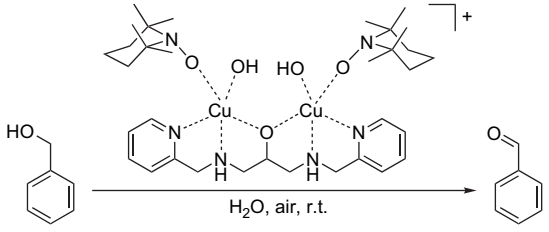
Contents

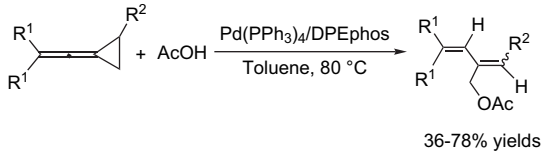
REPORT



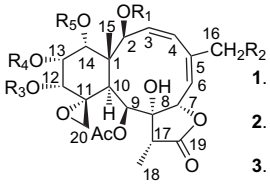
The synthesis of 2′,3′-didehydro-2′,3′-dideoxynucleosides having a branching group at either of the 2′- or 3′-positions other than a proton and branching groups at both of the 2′- and 3′-positions other than a proton is reviewed. The report contains 81 references.

ARTICLES

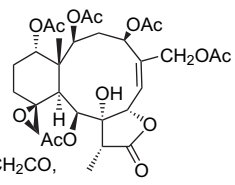




$Pd(PPh_3)_4$-catalyzed reactions of vinylidenecyclopropanes **1** with acetic acid proceeded smoothly at 80 °C in toluene to give the corresponding acetylated dienes **2** in moderate to good yields in the presence of DPEphos ligand.



1. R_1, R_3, R_4 = Ac, R_2 = Cl, R_5 = $(CH_3)_2CHCH_2CO$
2. R_1, R_4, R_5 = Ac, R_2 = Cl, R_3 = $(CH_3)_2CHCH_2CO$
3. R_1 = $(CH_3)_2CHCH_2CH_2COOCH_2CO$, R_2 = OH, R_3, R_4, R_5 = Ac
4. R_1, R_3, R_5 = Ac, R_2 = OCH_3, R_4 = $(CH_3)_2CHCH_2CO$
5. R_1, R_4 = Ac, R_2 = OCH_3, R_3, R_5 = H
6. R_1, R_4 = Ac, R_2 = OAc, R_3, R_5 = H



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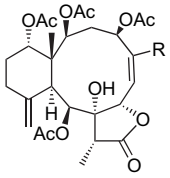
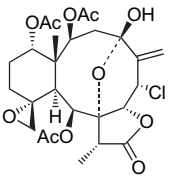


8. R = CH_2OAc
9. R = COOMe



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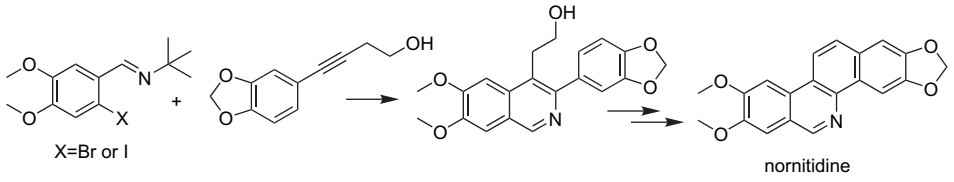
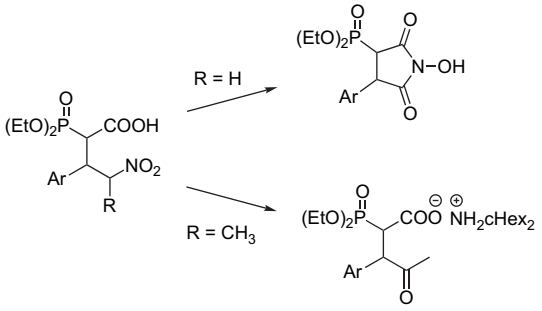
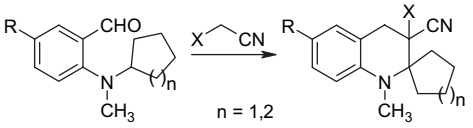
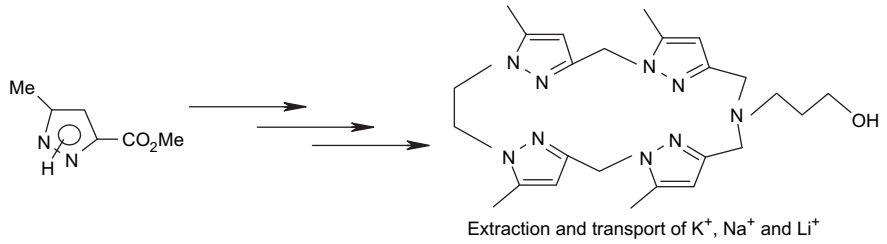
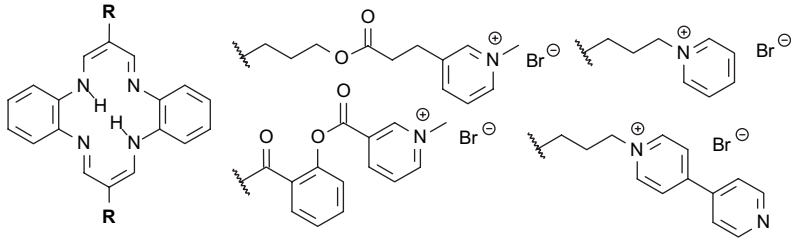
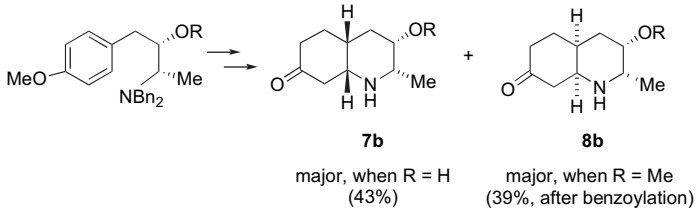


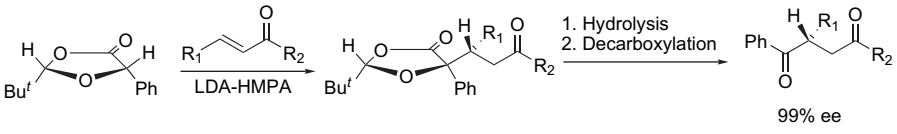


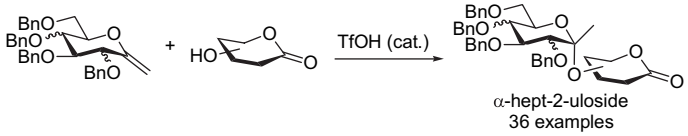


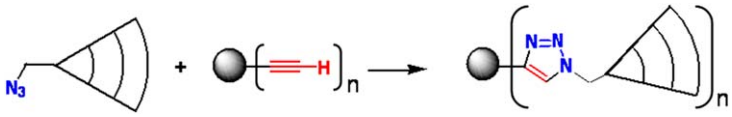




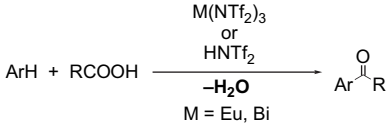


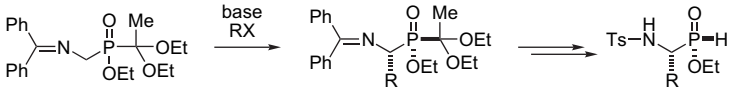


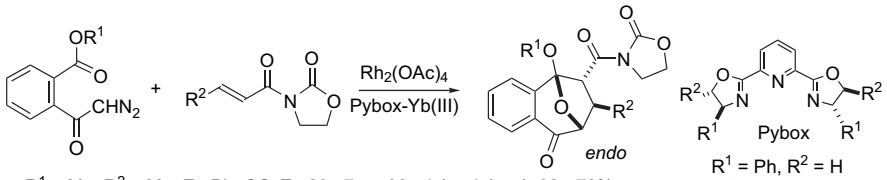




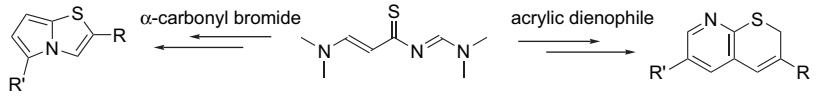
Azide-functionalized PAMAM dendrons were synthesized by the divergent method using azidopropylamine as an azide focal point and applied for the construction of symmetric PAMAM-like dendrimers containing 1,2,3-triazole rings as connectors via stitching with two multi-terminal alkynes. The stitching method was based on the click chemistry protocol, i.e., the copper-catalyzed cycloaddition reaction between an alkyne and an azide.

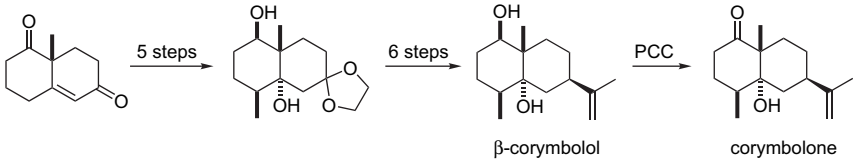


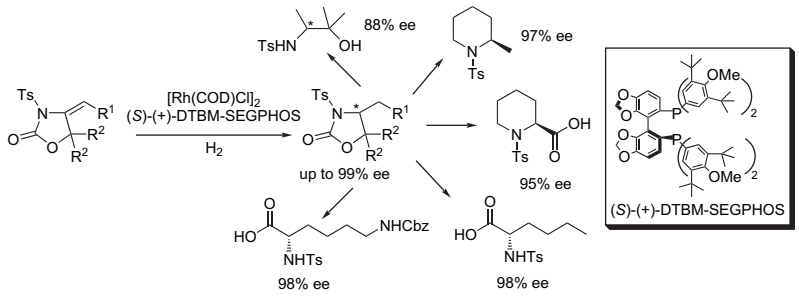


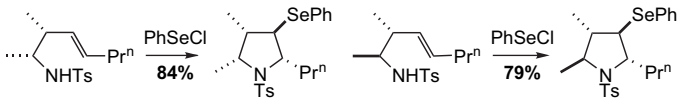


R^1 = Me, R^2 = Me, Et, Ph, CO_2Et: 93 : 7 - > 99 : 1 (*endo*/*exo*), 38 - 78% ee
R^1 = *p*-$BrC_6H_4CH_2$, R^2 = Me: > 99 : 1 (*endo*/*exo*), 96% ee

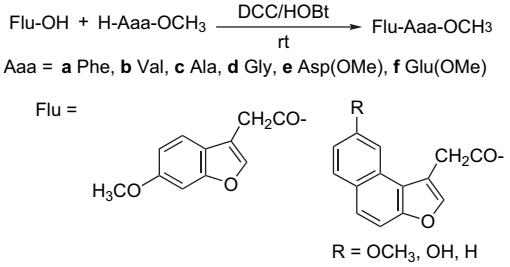


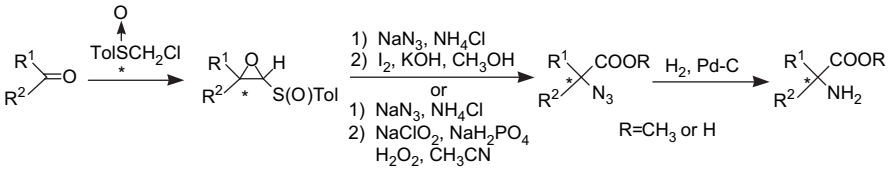


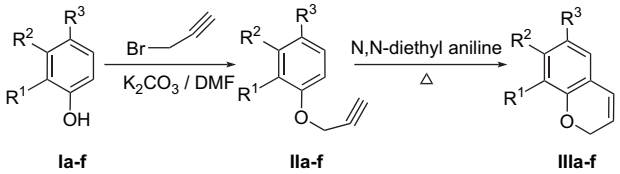


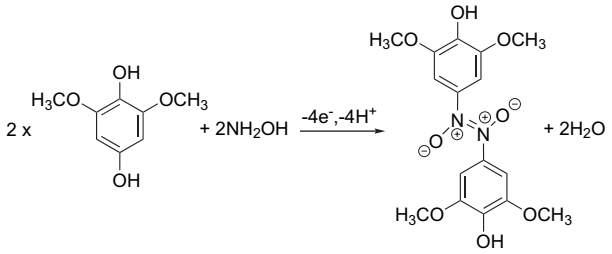


Selenocyclisations of the homoallylic sulfonamides usually proceed both very efficiently and high stereoselectively.









OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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