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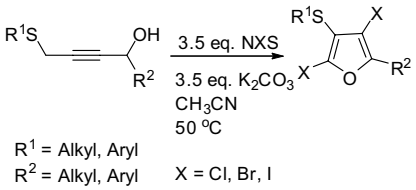
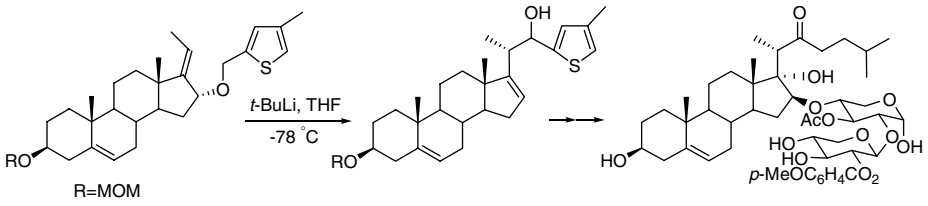
Tetrahedron Letters

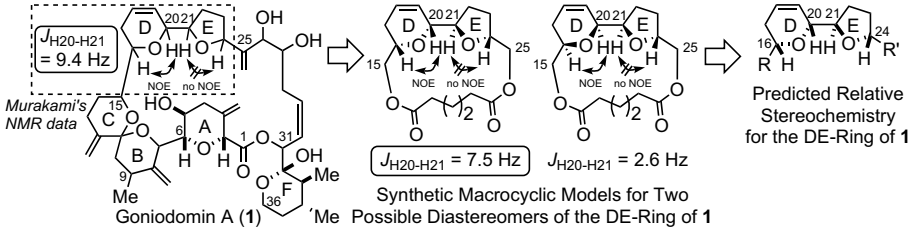
Tetrahedron Letters Vol. 49, No. 2, 2008

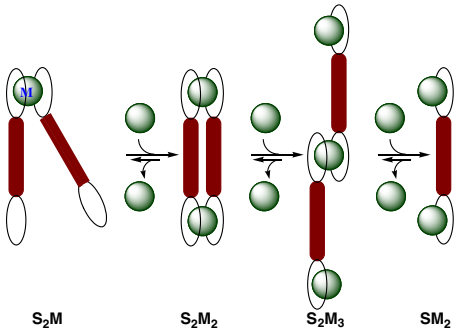
Contents

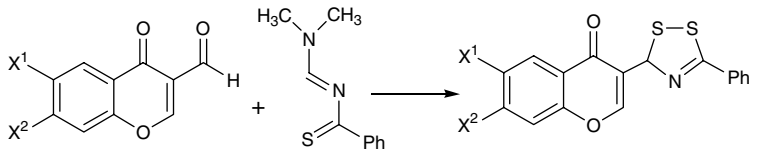
COMMUNICATIONS

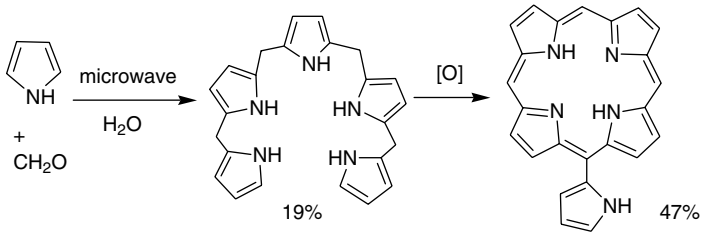


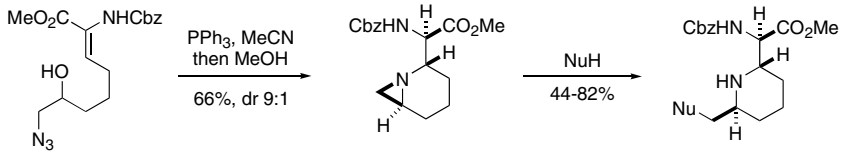


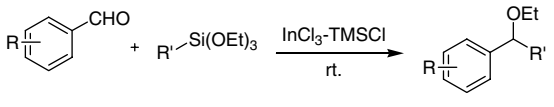


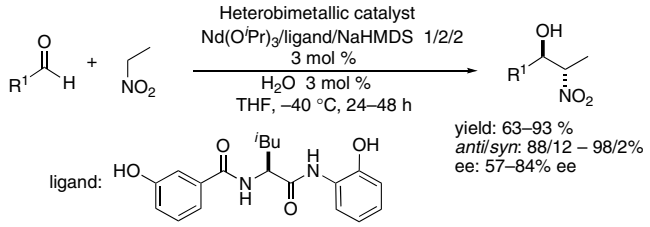


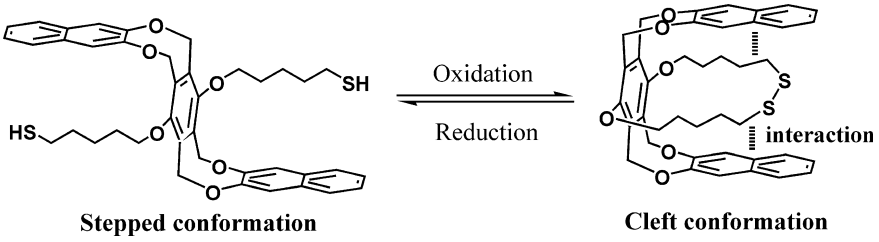


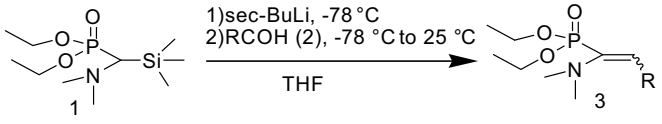


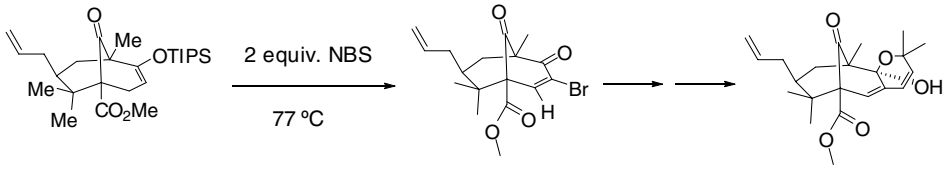




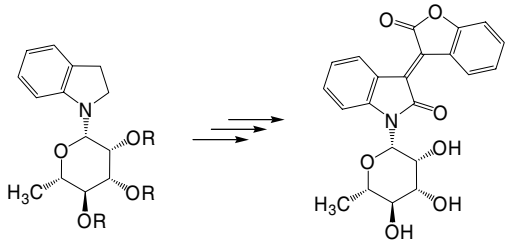


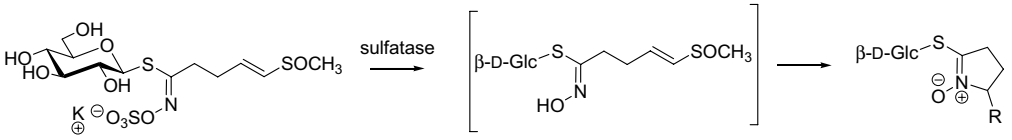




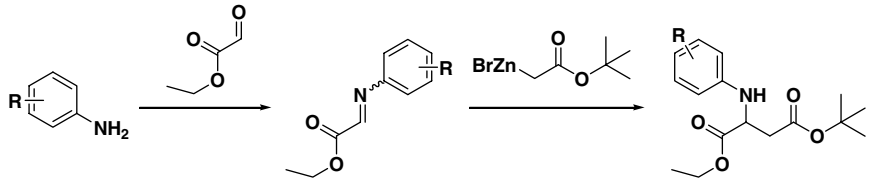


The selective one-pot conversion of enol silyl ethers into α-bromoenones allows a direct preparation of a tricyclic intermediate to papuaforin A.

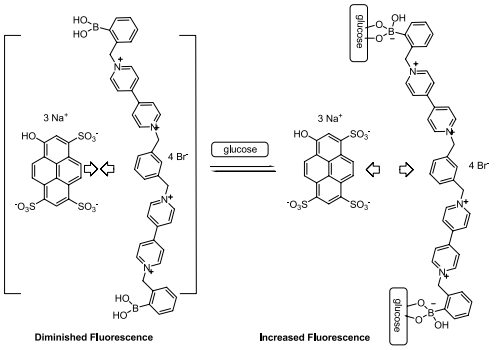


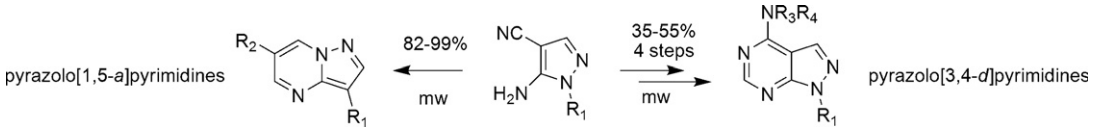


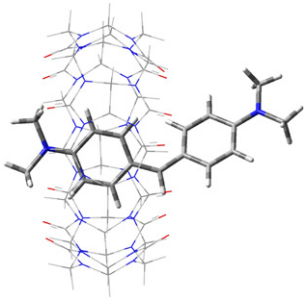
Enzymatic desulfation of stable glucoraphenin affords desulfoglucoraphenin, which unexpectedly undergoes further transformations into cyclic nitrone-type derivatives.



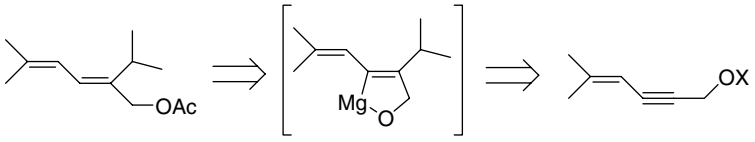
A brief and efficient synthesis of various N-arylated racemic aspartates has been achieved by two consecutive reactions in one-pot, in which imine or equivalent, formed in situ from various anilines and ethyl glyoxylate, reacted with the Reformatsky reagent, *tert*-butyl 2-bromozinc acetate. Notably the two esters are orthogonally protected for the convenience of further derivatization.



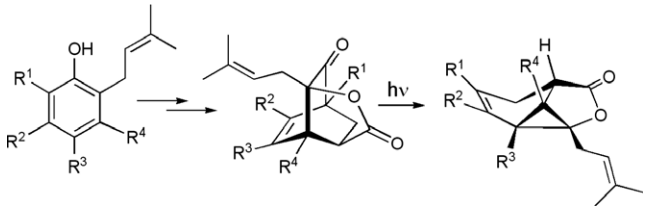


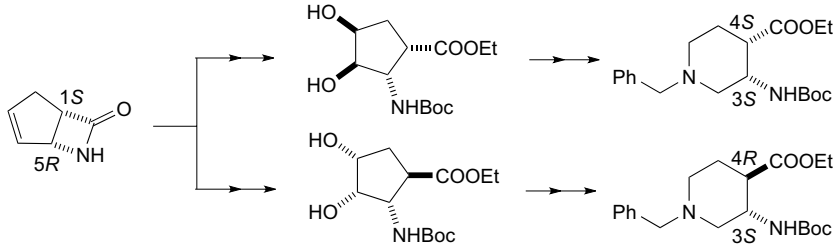


The stability of the 4,4′-bis(dimethylamino)diphenylmethane carbocation is significantly enhanced in aqueous solution by its inclusion in the cavity of the cucurbit[7]uril host molecule.

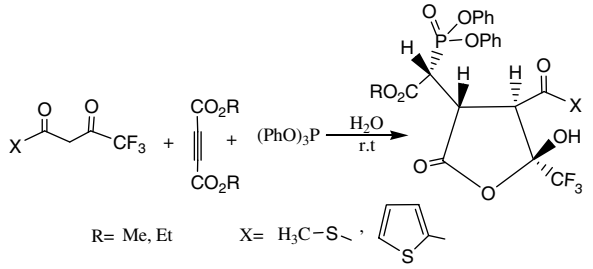


The title compound was synthesized efficiently in three steps using CuI-catalyzed regio- and stereospecific addition of a Grignard reagent to an enynol precursor in the key step.

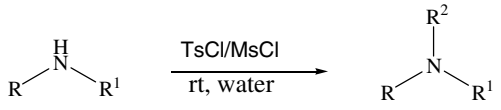




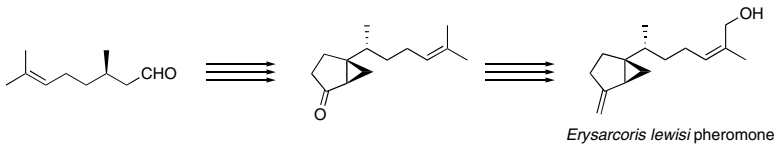
A simple and novel method is presented for the synthesis of aminocyclopentenecarboxylic ester diastereomers with an N-heteroatom in the ring.

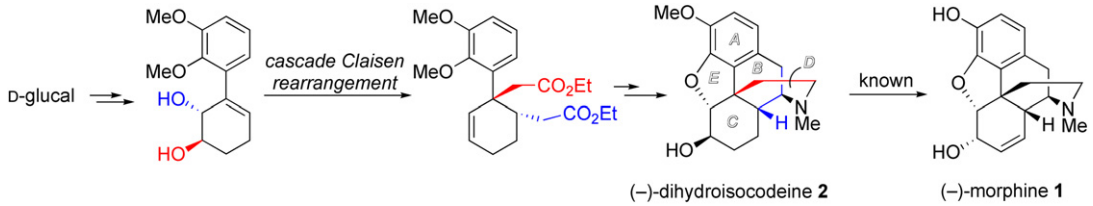


A facile diastereoselective synthesis of highly functionalised 3-(1-diphenylphosphonylethyl)butyrolactones is described.

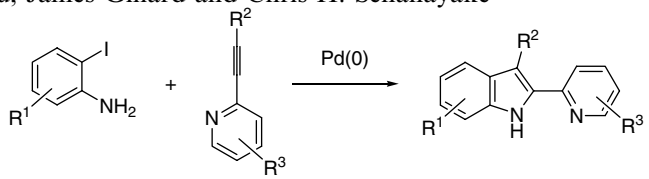


R = aryl, benzyl, furfuryl, cycloalkyl; R^1 = H ; R^2 = Ts, Ms

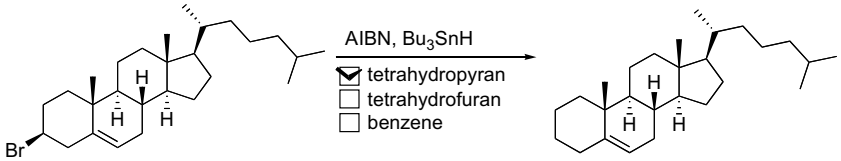




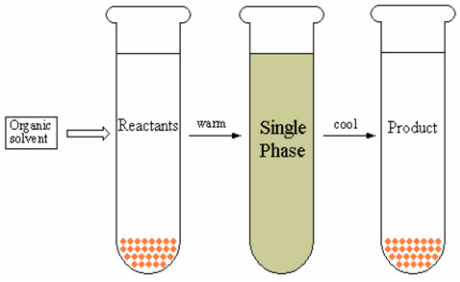
The chiral and stereoselective synthesis of (−)-dihydroisocodeine **2**, the known synthetic intermediate of (−)-morphine **1**, is described. The vicinal tertiary and quaternary stereocenters in **2** were effectively generated in one-step reaction based on the cascade sequential Claisen rearrangement of a cyclohexene-diol derived from D-glucal.

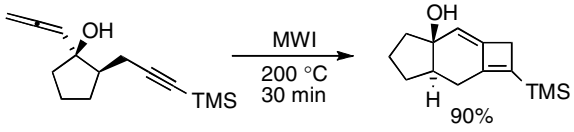


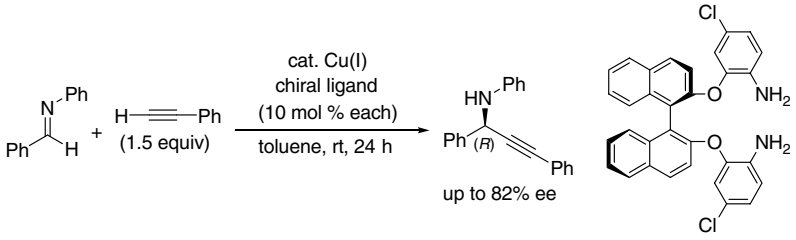
A regioselective Larock approach to 3-substituted-2-pyridin-2-ylindoles from 2-alkynylpyridines and 2-iodoanilines is described herein. The unexpectedly high regioselectivity can be rationalized by a combination of steric, coordinative, and electronic effects.

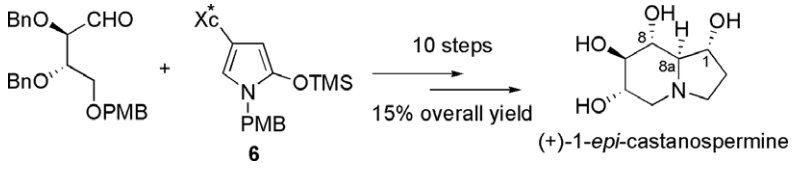


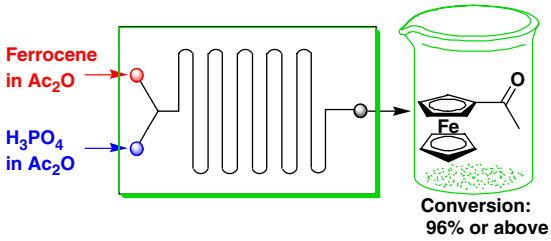
Being soluble in polar organic solvents at >120 °C but insoluble at room temperature, complexes **2b–c** were demonstrated to be recoverable in Pd-catalyzed Heck reactions under the thermomorphic mode.

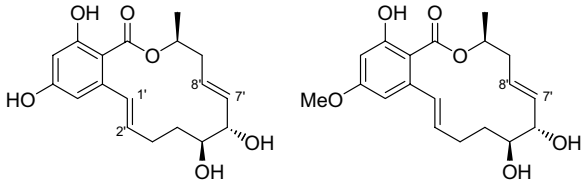






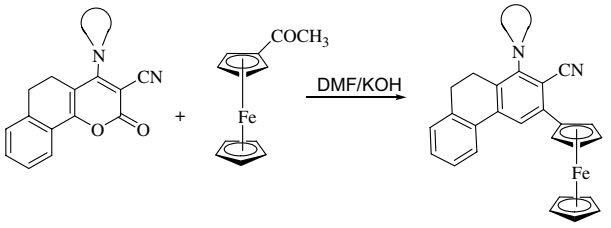


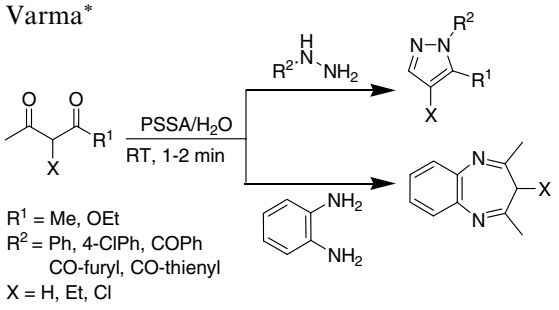




epi-aigialomycin D *deoxy*-aigialomycin C

Syntheses of *epi*-aigialomycin D and *deoxy*-aigialomycin C are described via a remote stereocontrolled RCM macrocyclization.





*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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ISSN 0040-4039