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Tetrahedron Letters

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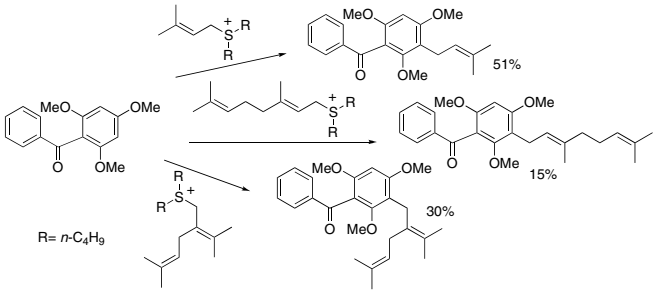
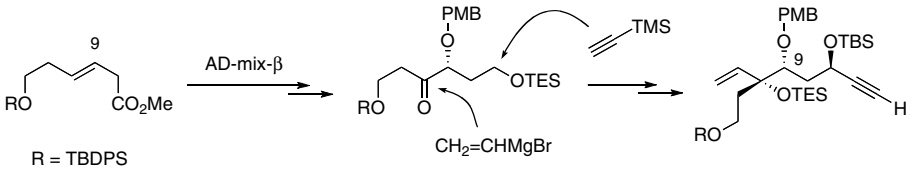
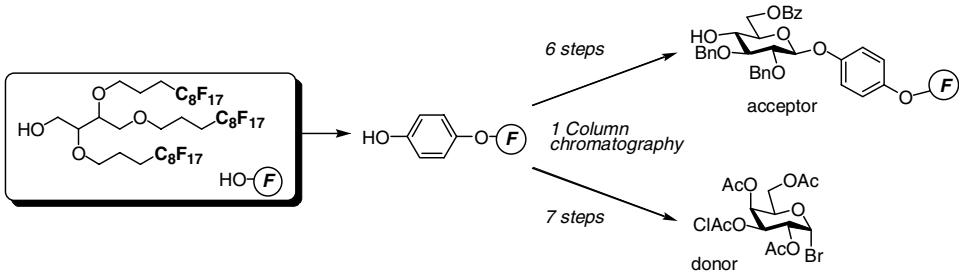
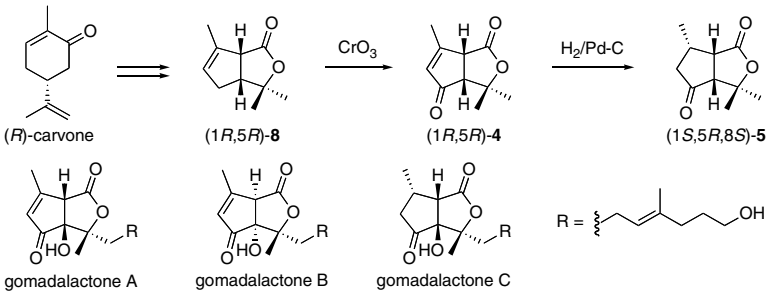
Contents

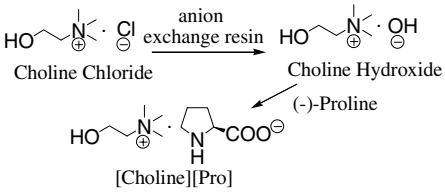
COMMUNICATIONS



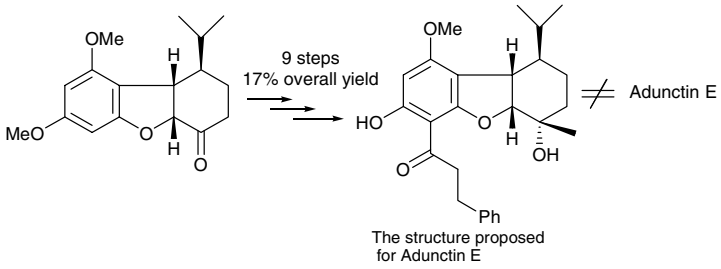




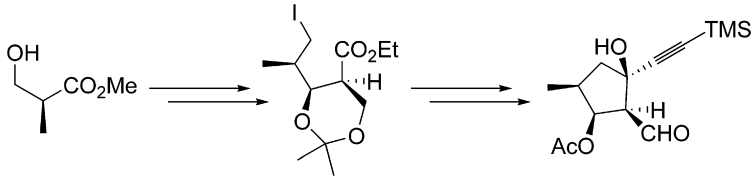


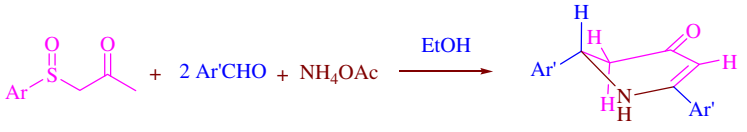


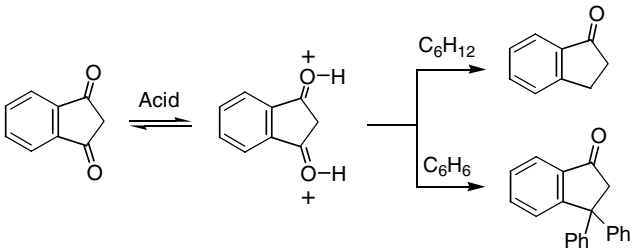
A new functional ionic liquid (2-hydroxyethyl)-trimethyl-ammonium (*S*)-2-pyrrolidinecarboxylic acid salt ([Choline][Pro]) has been synthesized from biorenewable raw materials through a green chemistry route. It can be used to catalyze direct aldol reactions efficiently in water, and reused easily.



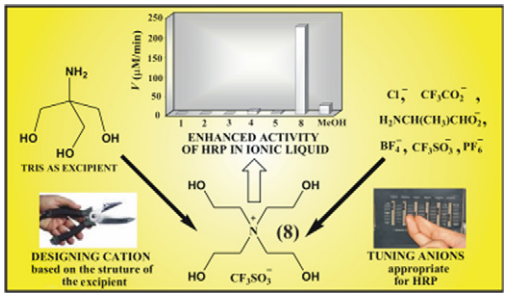
The compound proposed for adunctin E by Sticher was prepared, however, the spectral data of the prepared one were inconsistent with those previously reported for adunctin E.

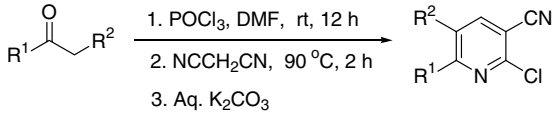


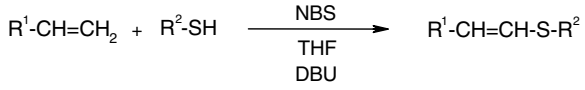




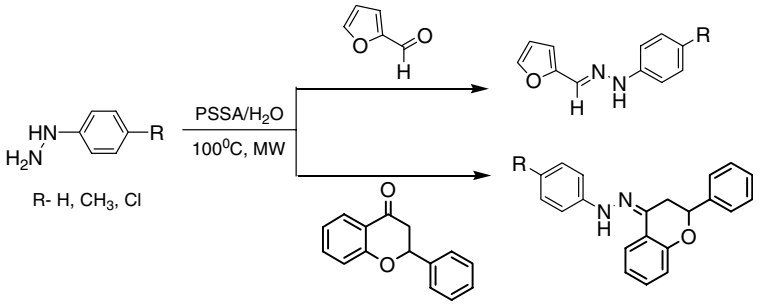
1,3-Indandione condenses with benzene and undergoes selective ionic hydrogenation with cyclohexane under the action of superacids, such as CF_3SO_3H, $AlCl_3$ and $AlBr_3$ to give 3,3-diphenyl-1-indanone and 1-indanone, respectively. The same reactions are mediated successfully by the regenerable solid acid, HUSY-zeolite. The results obtained are interpreted in terms of key dicationic (superelectrophilic) intermediates.

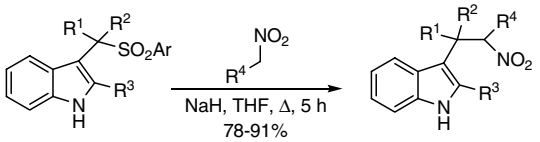




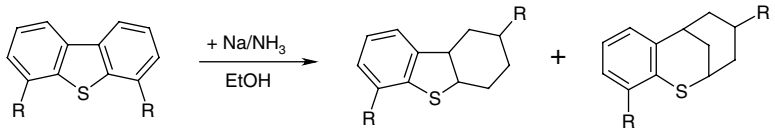


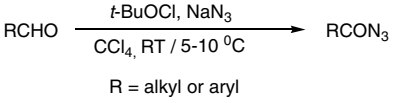
A convenient method for the one-pot conversion of olefins into the corresponding enol thioethers is reported.

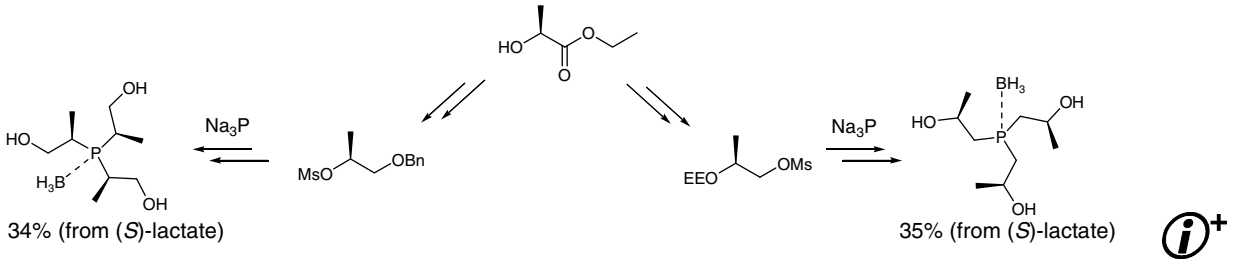


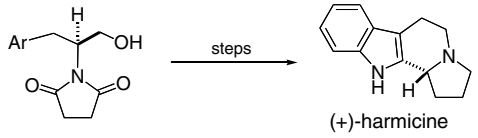


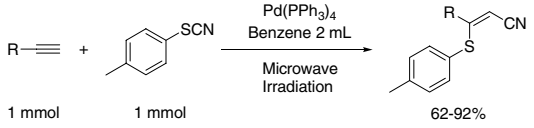
Sulfonyl indoles act as effective precursors of vinylogous imino derivatives in the reaction with nitroalkanes under basic conditions leading to the corresponding nitro indoles in good yield.

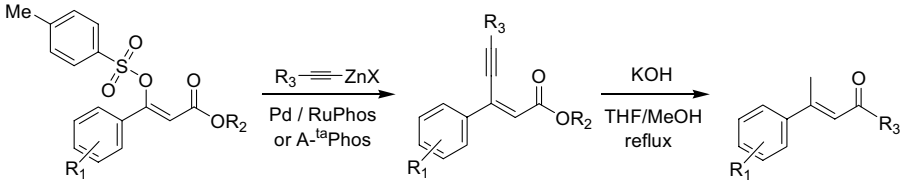


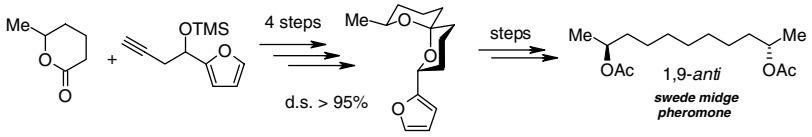


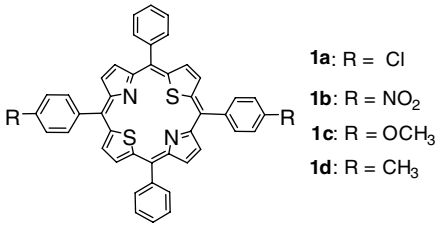




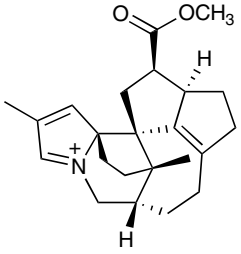




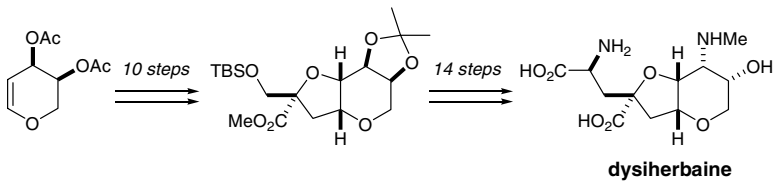




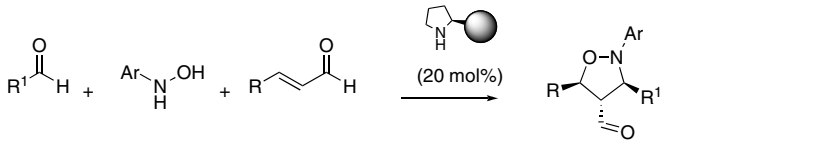
A series of novel 21,23-dithiaporphyrins (DSPs), which have much larger nonlinear refractive cross section than normal porphyrins and exhibit reverse saturable absorption, have been synthesized and characterized.

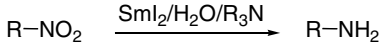


Calyciphylline G



An efficient synthetic route to dysiherbaine is described.





OTHER CONTENT

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Plausible biogenetic path of calyciphylline G, a novel cytotoxic alkaloid with an unprecedented fused-hexacyclic skeleton containing a 5-azatricyclo[6.2.1.$0^{1,5}$]undecane ring, isolated from the stems of *Daphniphyllum calycinum*.
Tetrahedron Letters **2007**, *48*, 5693–5695.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

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