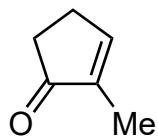


A Concise Approach to Paxilline Indole Diterpenes

George, D. T.; Kuenstner, E. J.; Pronin, S. V.

J. Am. Chem. Soc. **2015**, *137*, 15410–15413.



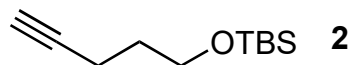
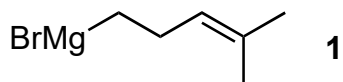
1-5



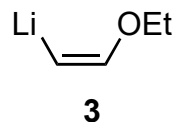
6-10

emindole SB

- 1) **1**, CuBr•SMe₂, then TIPSCl, HMPA
- 2) **2**, InBr₃, CH₂Cl₂, then HCl
- 3) SeO₂, *t*-BuO₂H
- 4) PhNHNH₂, AcOH; ZnCl₂, PhMe, 110 °C
- 5) SO₃•Py, DMSO, *i*-Pr₂NEt, then NaOH_{aq}/Et₂O



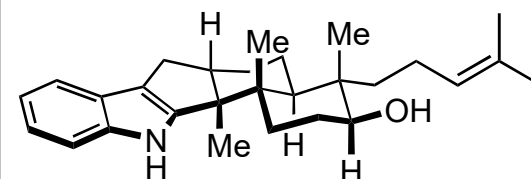
- 6) Fe(acac)₃, PhSiH₂(*Oi*-Pr)
- 7) KHMDS
- 8) **3**, THF, then 2N HCl
- 9) H₂, Pd/CaCO₃
- 10) Ph₃P=CMe₂



4) Named reaction?

5) *hint: a hemiaminal is formed*

6) *hint: only a ring formation, no ring opening*



emindole SB