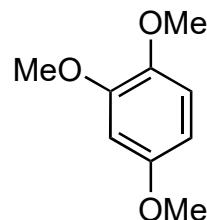


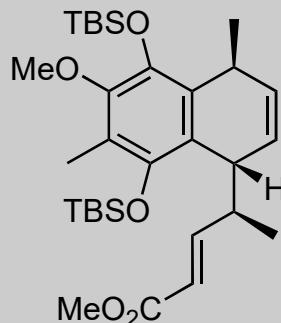
Combined C-H Activation/Cope Rearrangement as a Strategic Reaction in Organic Synthesis: Total Synthesis of (-)-Colombiasin A and (-)-Elisapterosin B

Huw M. L. Davies,* Xing Dai, and Matthew S. Long

J. Am. Chem. Soc. 2006, 128, 7, 2485–2490



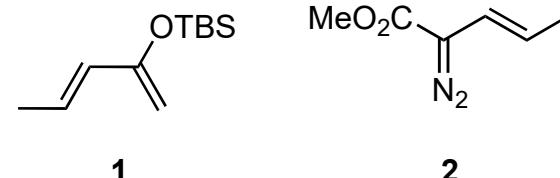
1-7



A

8-11

- 8) Pd/C, H₂
- 9) LiAlH₄
- 10) PCC
- 11) iPrMgBr



1

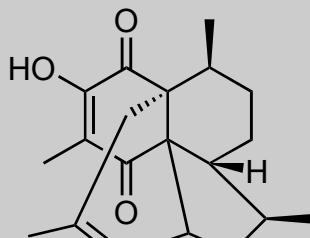
2

3) hint: 2 equivalents TBSCl

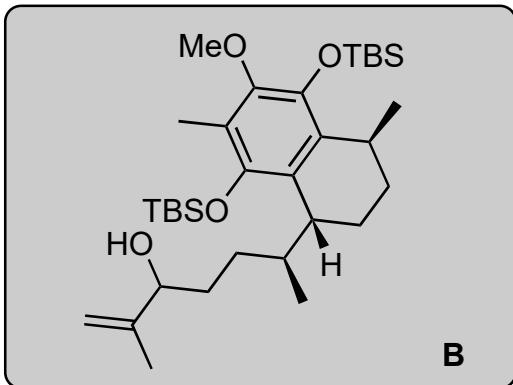
7) name of the reaction?

C-H activation/Cope Rearrangement

hint: 2 products are observed, note the name of the reaction!



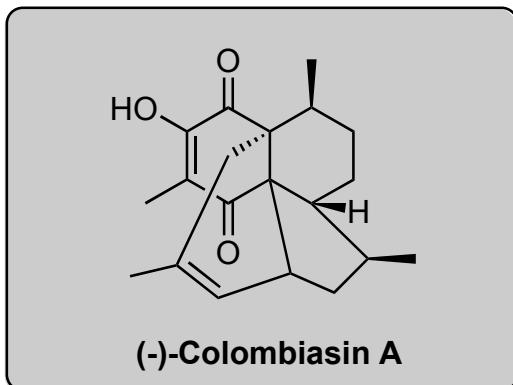
(-)-Colombiasin A



B

- 12) 2,6-Di-tertbutyl-4-methylpyridine
13) TBAF, air
14) toluene, 180 °C
15) AlCl₃

12-15



(-)Colombiasin A