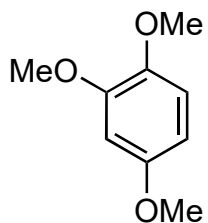


# Combined C-H Activation/Cope Rearrangement as a Strategic Reaction in Organic Synthesis: Total Synthesis of (-)-Colombiasin A and (-)-Elisapterosin B

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

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



1-7

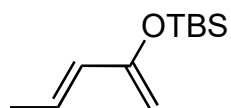


8-11

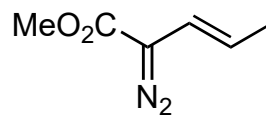
- 1) *n*BuLi, then MeI
- 2) PhI(OAc)<sub>2</sub>, MeOH/H<sub>2</sub>O
- 3) **1**, EtOH then Imidazole, TBSCl
- 4) TFA
- 5) NaHMDS, Comins' reagent
- 6) Pd(PPh<sub>3</sub>)<sub>4</sub>, LiBr, Et<sub>3</sub>SiH
- 7) **2**, Rh<sub>2</sub>(*R*-DOSP)<sub>4</sub>

3) hint: 2 equivalents TBSCl

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

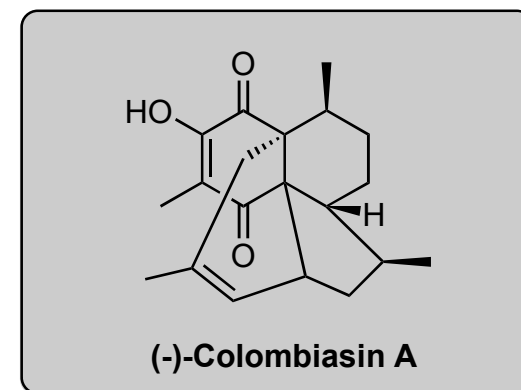


**1**



**2**

- 8) Pd/C, H<sub>2</sub>
- 9) LiAlH<sub>4</sub>
- 10) PCC
- 11) *i*PrMgBr





- 12) 2,6-Di-tertbutyl-4-methylpyridine
- 13) TBAF, air
- 14) toluene, 180 °C
- 15) AlCl<sub>3</sub>

12-15

