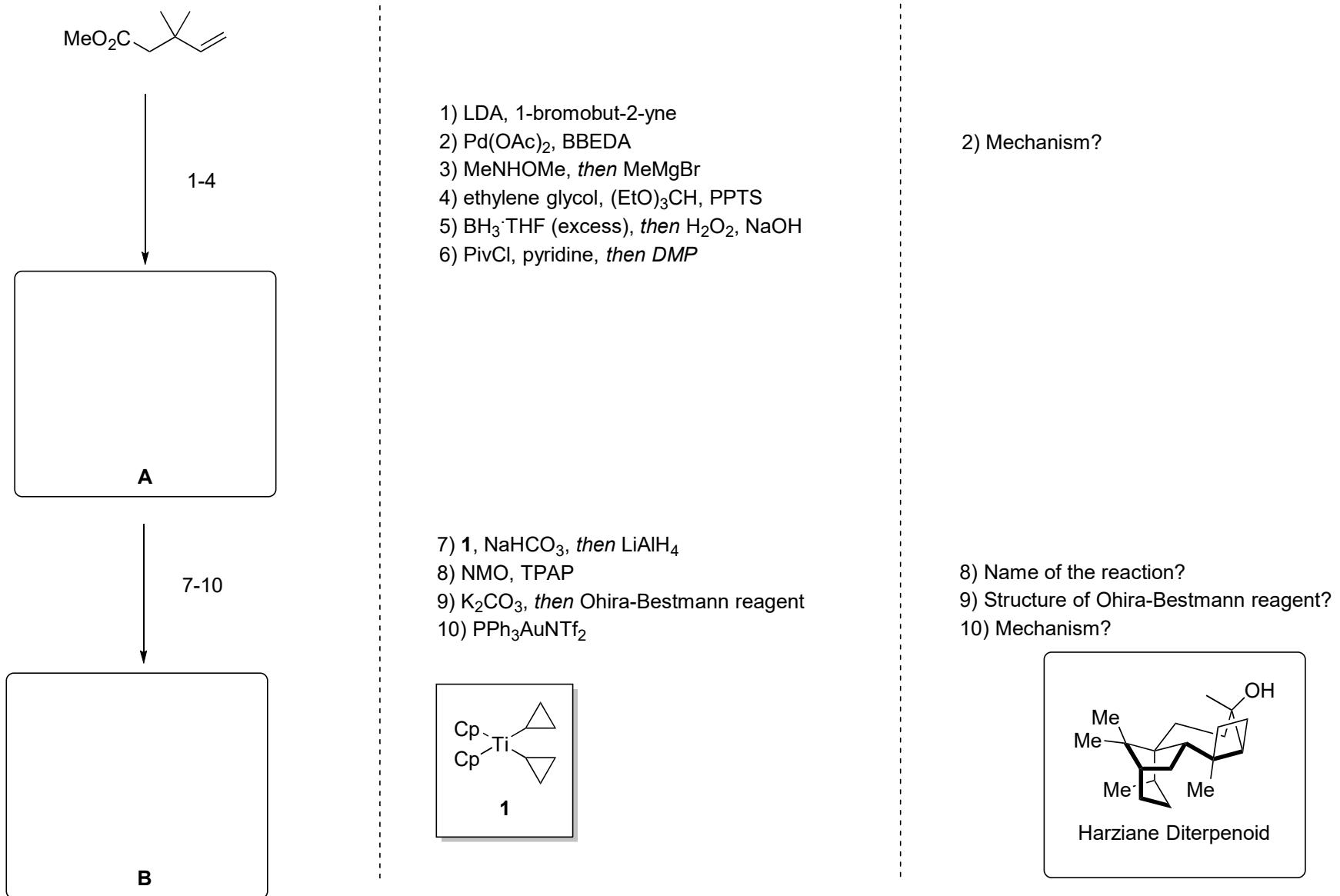


Total Synthesis and Structural Revision of a Harziane Diterpenoid
M. Höning, E. M. Carreira, *Angew. Chem. Int. Ed.* **2020**, 59, 1192.



11-18

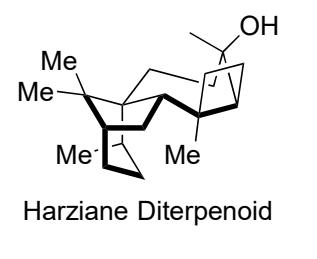
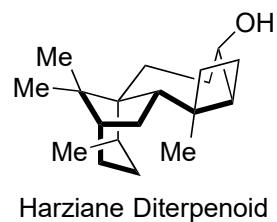
- 11) Thexylborane, *then* H₂O₂, NaOH
12) TPAP, NMO
13) Et₂AICN
14) NaHMDS, *then* Comins' reagent
15) Pd(PPh₃)₄, ZnMe₂
16) PPTS
17) TBSOTf, 2,6-lutidine
18) DIBAL-H, *then* NaOH, silica gel

B

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- 19) CuI, MeLi, BF₃·OEt₂
20) RuCl₃, NaIO₄
21) LHMDS
22) Ph₃PCH₃Br, KO*t*-Bu
23) DIBAL-H
24) KHMDS, CS₂, *then* Mel
25) AIBN, Bu₃SnH
26) Co(acac)₂, O₂, PhSiH₃

- 13) Name of the reagent?
14) Structure of Comin's reagent?
15) Name of the reaction?



- 24) + 25) Name of the reaction?
26) Name of the reaction?