Asymmetric Total Syntheses of Hypoestin A, Albolic Acid, and Ceroplastol II

Wang, Y.; Xu, K.; Min, L.; Li, C.

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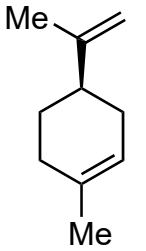
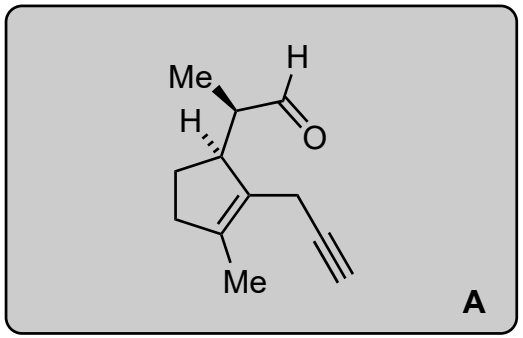
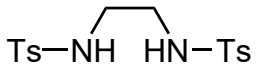
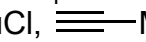


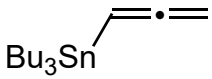
1-5





6-10

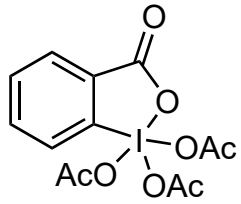
1) O_3, SMe_2 *then* piperidine, AcOH
2) $NaBH_4$ *then* CBr_4, PPh_3
3) CuCl, 
4) 9-BBN, NaOH, H_2O_2
5) DMP



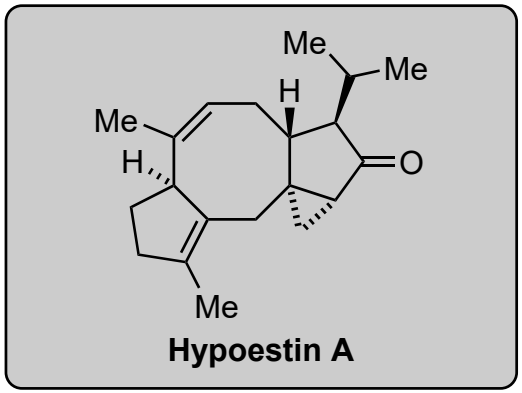
1

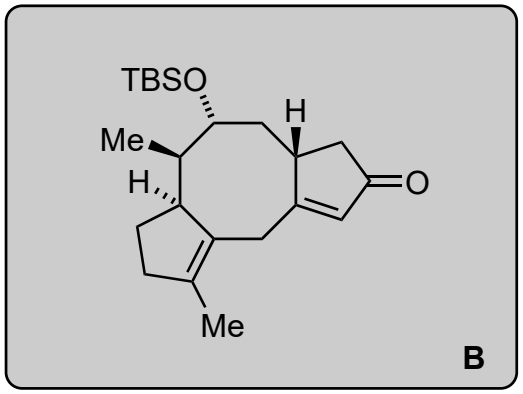
6) BBr_3 *then* **1**
7) DCM, **A**
8) TBSOTf, 2,6-lutidine
9) $[Rh(CO)_2Cl]_2$, CO
10) Pd/C, H_2

5) Structure of DMP?

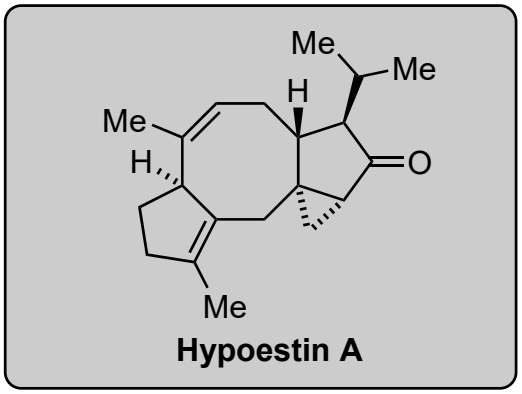


9) Name of the reaction?
Pauson-Khand reaction





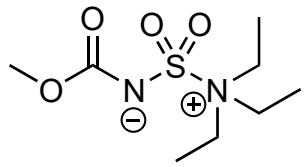
11-16



11) LDA, $ZnEt_2$, HMPA, 2-iodopropane
12) DIBAL
13) CH_2I_2, $ZnEt_2$
14) TPAP, NMO
15) TBAF
16) Burgess reagent

14) Name of the reaction?
Mechanism?
Ley-Griffith oxidation

16) Structure of Burgess reagent?



Ley-Griffith oxidation