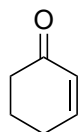
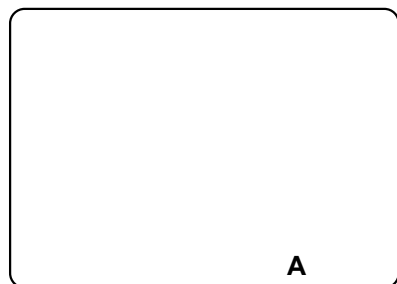


Total Synthesis of Hypersampson M

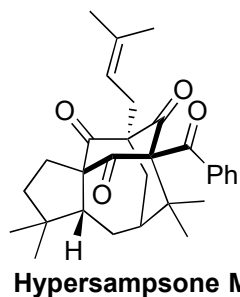
Samkian, A. E.; Virgil, S. C.; Stoltz, B. M. Total Synthesis of Hypersampson M. *J. Am. Chem. Soc.* **2024**, 146 (28), 18886–18891.



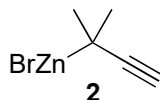
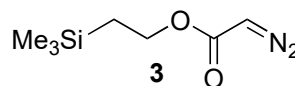
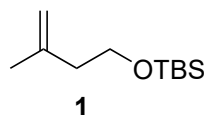
1–10



11–16



- 1) **1**, Fe(acac)₃, PhSiH₃
- 2) NaH, O=C(OMe)₂, THF, reflux
- 3) PhSeCl, py *then* H₂O₂, DCM, 0 °C
- 4) **2**, DME, 0 to 40 °C to 80 °C
- 5) Pd/C, H₂, EtOAc
- 6) LDA, **3**, THF -78 °C
- 7) Rh(TFA)₄,
- 8) NaH, prenyl bromide, THF, 0 °C
- 9) TBAF
- 10) DMP



- 11) TsOH·H₂O
- 12) PhNH₂·HCl, AlMe₃, toluene
- 13) DMP
- 14) Me₃OBf₄, 2,6-di(*t*-Bu)py, DCM
- 15) EtOAc/HCl
- 16) LiTMP, BzCl -78 °C

5) *Hint*: double bond reduction only

6) *Hint*: LDA reacts first with diazoacetate

7) *Hint*: Consider Ring expansion rearrangement

