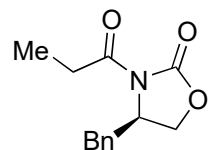
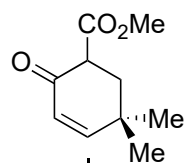
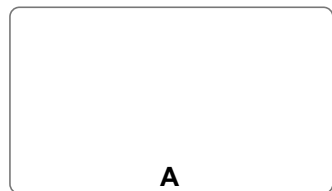


Total Synthesis of (±)- and (+)-Euphoheyrinoid A

Z.-H. Ye, Q.-Q. Ao, Y.-Ch. Peng, X. Liu, X. Lin, and Ch.-Ch. Li, *J. Am. Chem. Soc.* **2026**, 148, 5940–5945.



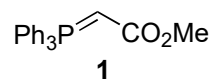
1-7



8-11



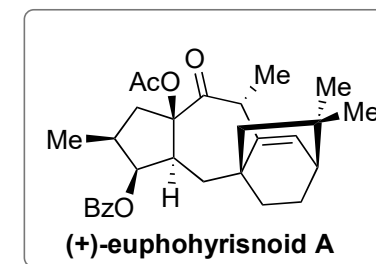
- 1) allyl iodide, NaHMDS
- 2) DIBAL-H
- 3) **1**
- 4) O₃, PPh₃
- 5) PMe₃
- 6) IBX
- 7) PhMe₂SiLi, CuCN



- 8) NaBH₄, CeCl₃·7H₂O
- 9) Ms₂O, NEt₃, *then* DBU
- 10) DIBAL-H
- 11) ClCO₂(*n*-Pr), py

5) Name of the reaction:

8) Name of the reaction:

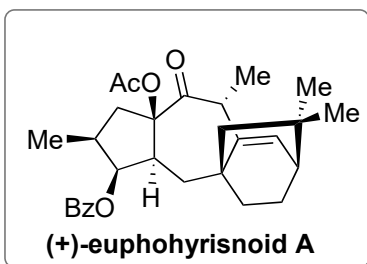


A + B

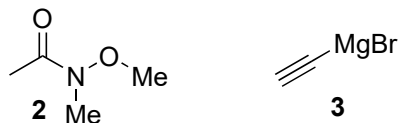
12-18



19-33



- 12) Pd₂(dba)₃, NaOAc, PPh₃
- 13) LiI, H₂O
- 14) LDA, **2**
- 15) TMSIm, TBAF (cat.)
- 16) DIBAL-H
- 17) **3**, then TBAF
- 18) MnO₂



- 19) Pd/C, H₂
- 20) N₂H₄·H₂O, NEt₃, then I₂, DIPEA
- 21) TMSIm, TBAF (cat.)
- 22) Pd(dppf)Cl₂, CO, NEt₃, MeOH
- 23) LiAlH₄
- 24) *o*-NO₂PhSeCN, PBU₃; H₂O₂, py
- 25) TBSOTf, DIPEA
- 26) TBAF
- 27) RhCl(PPh₃)₃, H₂
- 28) Li/NH₃, THF/EtOH
- 29) TBAF, then MeOH, KF, KHCO₃, H₂O₂
- 30) TBAF
- 31) TMAD, PBU₃, PhCO₂H
- 32) DMP, NaHCO₃
- 33) Ac₂O, TMSOTf

12) Name of the reaction:

13) Name of the reaction:

18) Hint: reaction was followed by spontaneous cyclization

27) Name of the catalyst:

29) Name of the reaction:

31) Name of the reaction: