

F

10. LDA, then TBSCI, HMPA, THF 11. DIBAI-H, DCM, 12. (OEt)₂P(O)CH₂CO₂Et, NaH, THF



13. DIBAI-H, THF 14. **1**, Et₂Zn, CH₂I_{2,} DCM 15. NaH, BnBr, TBAI, DMF

16. TBAF, THF 17. ρ NO₂C₆H₄SeCN, Bu₃P, THF 18. H₂O₂, THF

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7. DIBAI-H, THF,

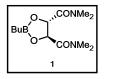
9. *m*CPBA, DCM

8. TBSOTf, 2,6-lutidine, DCM

19. HF•Py, THF 20. TBSCI, im, DMF 21. DMP, DCM 22. HF•Py, THF

23. BOMCI, DIPEA, TBAI 24. *t*-BuOCH(NMe₂)₂, DMF 25. Tf₂O, 2,6-(*t*-Bu)₂Py, DCM 26. **2**, *t*-BuLi, THF 27. PPTS, DMF, H₂O 28. TMSCI, im, DMF

G





29. **3**, Bu₃SnF, PdCl₂[P(*o*-tol)₃]₂, DMF 30. Me₂AlCl, Et₂O

31. CH₃CO₂H, H₂O 32. DMP, DCM

G

J

33. SeO_{2,} 1,4-dioxane, H₂O 34. Cu(OAc)_{2,} MeOH

35. Mel, Ag₂O, DMF 36. DIBAI-H, toluene 37. IBX, DCM/DMSO 38. TMSCI, im, DMF 39. OsO_{4,} pyr, *⊧*BuOH 40. NalO_{4,} MeCn

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