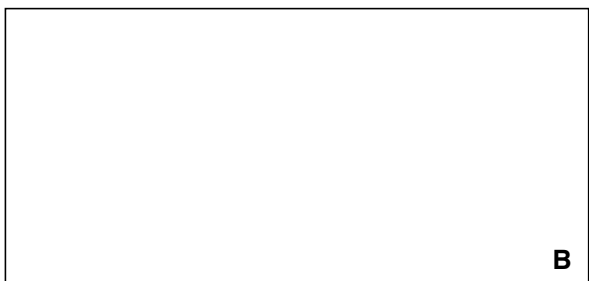
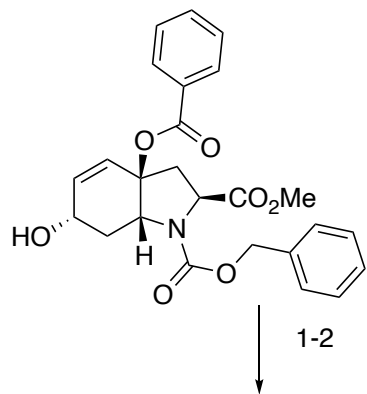
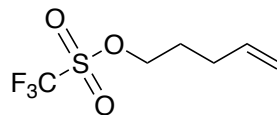


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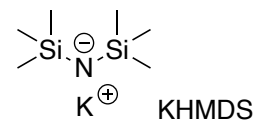
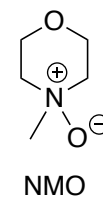


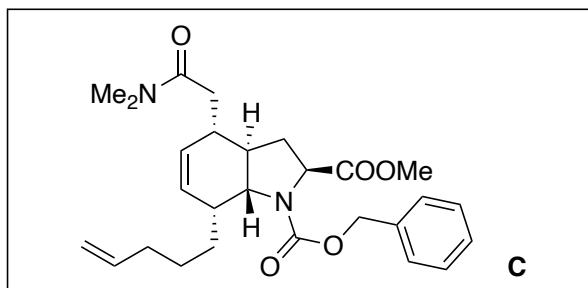
- 1) Pd₂(dba)₃, HCO₂H
2) RuO₄NPr₄, NMO

- 3) KHMDS



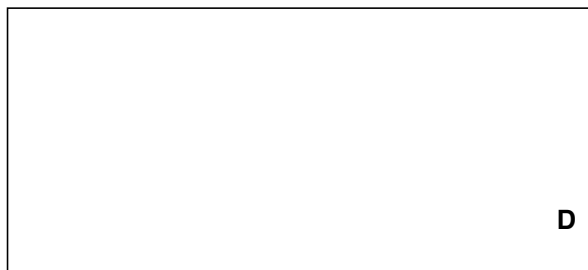
- 4) NaBH₄, CeCl₃
5) MeC(OMe)₂NMe₂





6-8

- 6) AD-mix beta, NaIO₄
- 7) NaBH₄
- 8) (iPr)₃SiCl = TIPSCl



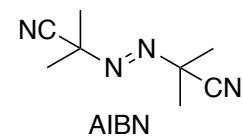
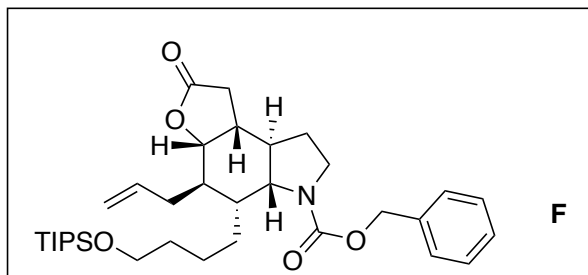
9-11

- 9) LiOH
- 10) PhOPOCl₂, PhSeH
- 11) Bu₃SnH, AIBN, 130°C



12-13

- 12) I₂, pH 5.5
- 13) AllylSnBu₃, AIBN

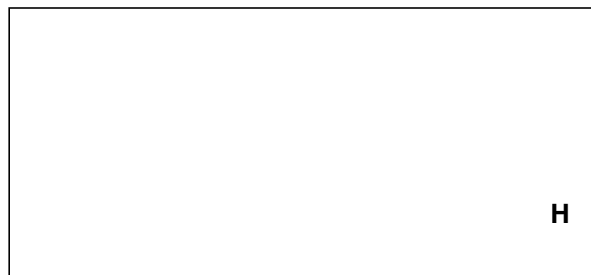


↓ 14-15



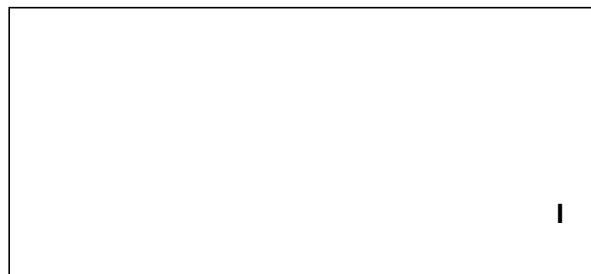
14) Lithiumdiisopropylamid (LDA), MeI
15) OsO₄, NaIO₄

↓ 16-17



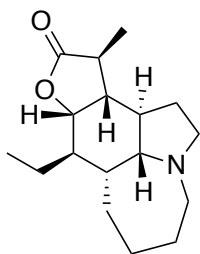
16) NaBH₄
17) ArSeCN, Bu₃P; H₂O₂

↓ 18-20

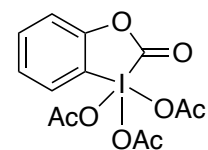


18) HF
19) Dess-Martin periodinane
20) NaClO₂, tBuOH, 2-Methyl-2-butene,
NaH₂PO₄

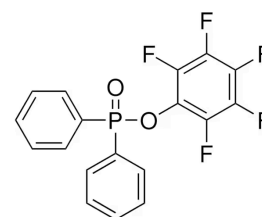
↓ 16-17



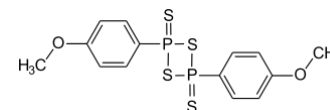
21) H₂, Pd(OH₂)
22) pentafluorophenyl-diphenyl-
phosphinate (FDPP)
23) Lawesson's reagent
24) Raney-Ni, H₂



Dess-Martin-Periodinane



FDPP



Lawesson's reagent