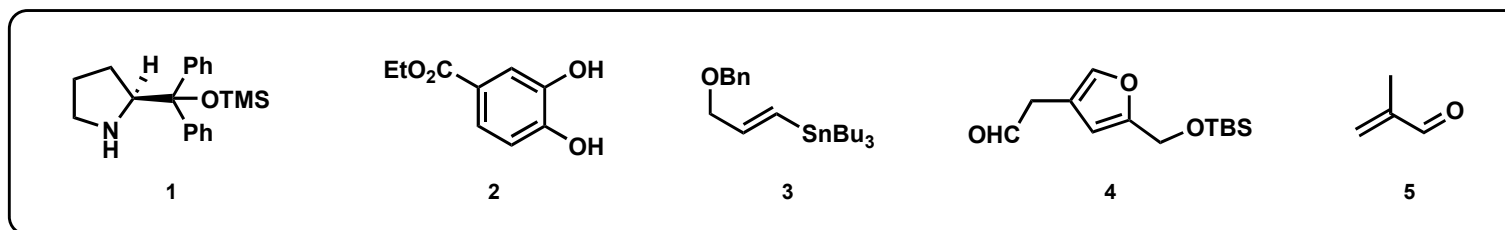
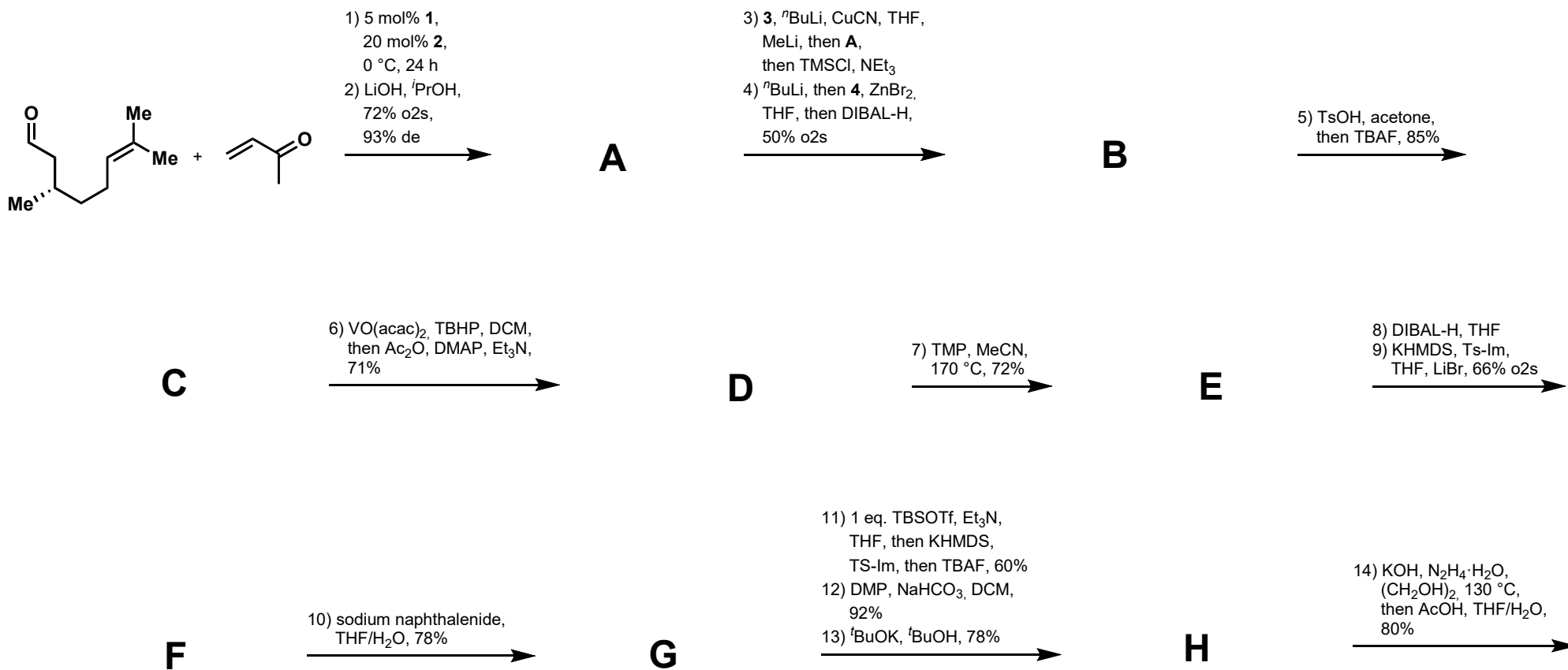


Asymmetric Total Synthesis of Cerorubenic Acid-III

27.02.19

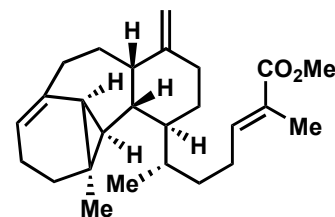


I

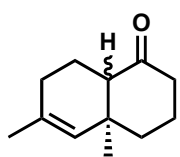
15) Ac₂O, DMAP, Et₃N
DCM, then DMP
16) KHMDS, THF 80% o2s

J

17) NaBH₄, NiCl₂, MeOH
18) CH₃PPh₃Br, ⁿBuLi, THF
19) **5**, Grubbs II, DCM,
then Ag₂O, EtOH/H₂O,
27% o3s
20) TMSCHN₂, MeOH,
hexane, 95%



cerorubenic acid-III methyl ester



1) HCO₂Et, NaH,
THF, cat. MeOH,
97%

K

2) TsOH,
PhMe,
85 °C,
59%

L

3) PhOCSCI,
DMAP, DCM
4) (Me₃Si)₃SiH,
AIBN, PhH,
84% o2s

M

5) LDA,
MoOPD,
THF, 51%
6) H₂, Pd/C,
MeOH, 71%

