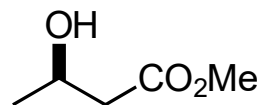


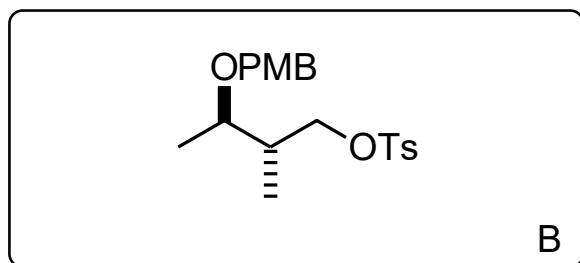
Synthesis Challenge # 64

AG Wegner

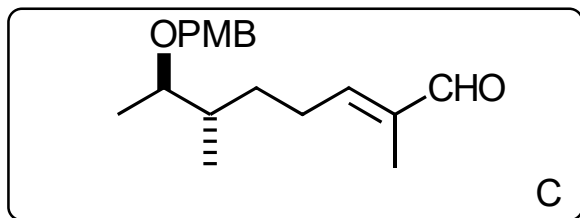
16.05.2017



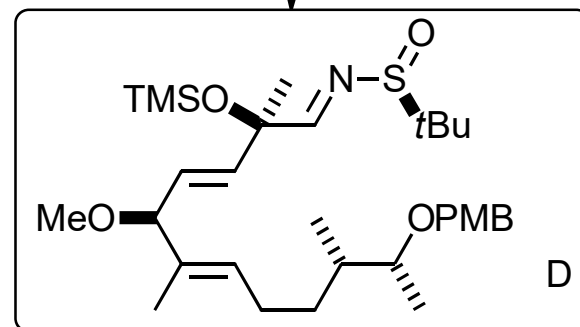
A



B



C

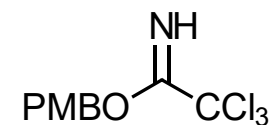


D

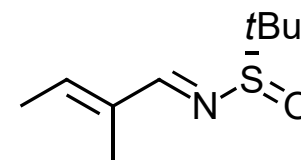
- 1) LDA (2.1 eq.), then MeI, THF, HMPA
- 2) **I**, La(OTf)₃, PhMe
- 3) DiBALH
- 4) TsCl, Et₃N

- 5) allylMgBr, TMEDA, Et₂O
- 6) 10 mol%, Hoveyda-Grubbs II methacrolein, CH₂Cl₂

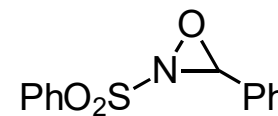
- 7) SnCl₄, CH₂Cl₂, then **II**, LiHMDS, THF
- 8) Me₃OBF₄, Proton sponge, CH₂Cl₂
- 9) LiHMDS, THF, then **III**, then TMSOTf



I

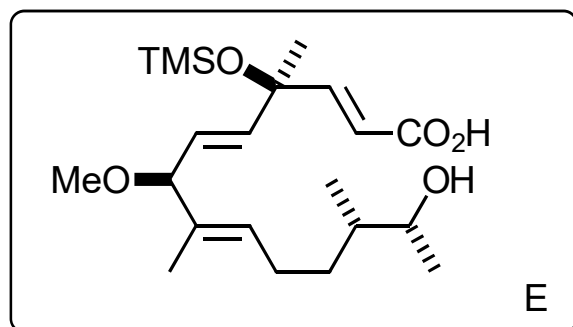


II

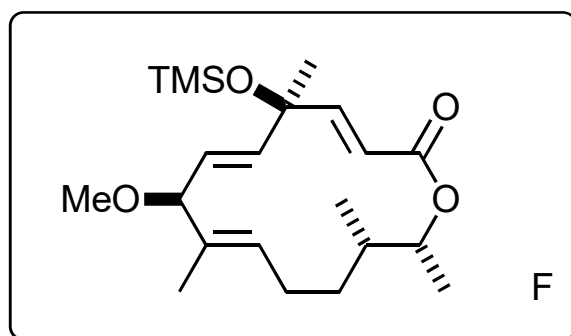


III

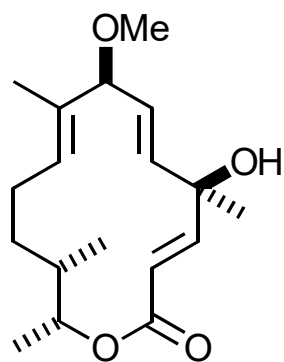
10-12



13



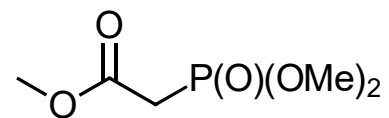
14



10) NaH, **IV**
11) DDQ, H₂O, CH₂Cl₂
12) TMSOK, THF

13) DCC, DMAP, DMAP*HCl, CHCl₃

14) TBAF, THF



IV