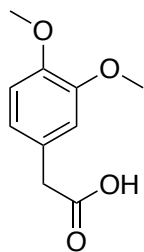


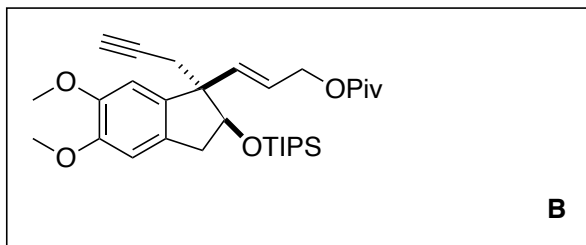
Synthesis Challenge 90

AG Wegner

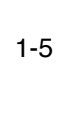
22.10.2020



A



B



C



D

- 1) PtCl_4 , dioxane, 100°C
- 2) TBAF, THF
- 3) Pd/C, H_2 , MeOH
- 4) DMP, NaHCO_3 , CH_2Cl_2
- 5) Geranyl bromide, LDA, THF/DMPU

- 6) L-selectride, THF, -78°C
- 7) Ac_2O , NEt_3 , CH_2Cl_2
- 8) $\text{Bi}(\text{OTf})_3$, CH_3NO_2

Please, provide a strategy how to synthesize **B** from **A**.

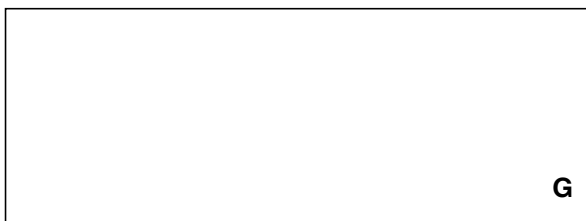
9-12



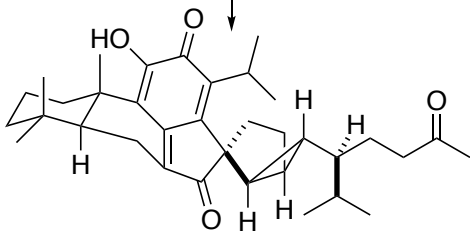
13-15



16-18



19-20



- 9) NBS, DMF/HFIP
10) Pd(OAc)₂, PPh₃, I, dioxane/H₂O
11) DIBAL-H, CH₂Cl₂, -78°C
12) Pd/C, H₂ (15 atm), MeOH, rt

- 13) PIDA, TEMPO, CH₂Cl₂
14) L-Proline, methyl malonate, DMSO, 40°C
15) II, Li₂CuCl₄, THF, -78°C

- 16) LAH, THF, rt
17) TsCl, Et₃N, CH₂Cl₂
18) NaBH₄, DMSO, 80°C

- 19) NaH, EtSH, DMF, 140°C, then MnO₂
20) PdCl₂, CuCl, O₂, DME/H₂O

