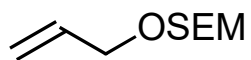


Synthesis Challenge #74

AG Wegner

03.05.2018

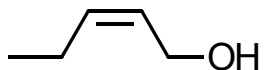


↓ 1-3

A



B



↓ 4-5

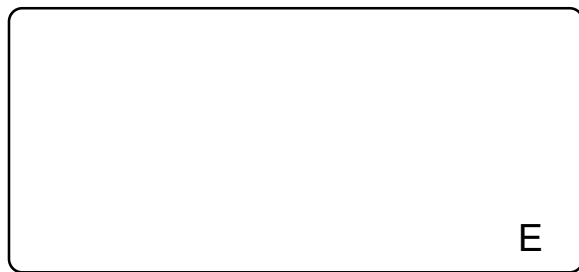
C



D

B + D

↓ 6-9

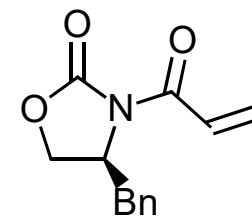


E

- 1) *sec*-BuLi, (+)-Ipc₂BOMe, then prenal
- 2) NaH, PMBCl
- 3) CSF, heat

- 4) Pd(BF₄)₂(MeCN)₄, (SiMe₃)₂
- 5) I, TiCl₄

- 6) Hoveyda-Grubbs II
- 7) C₁₂H₂₅SLi
- 8) Boc₂O, DMAP
- 9) Et₃SiH, Pd/C



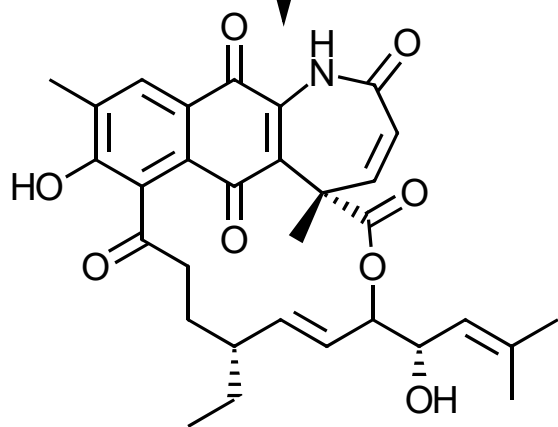
↓ 10-13



↓ 14-16



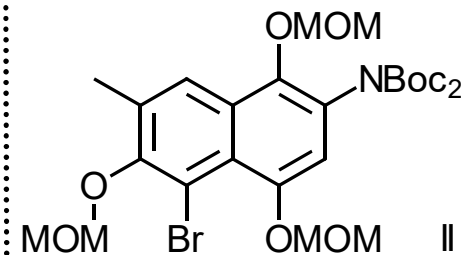
↓ 17-20



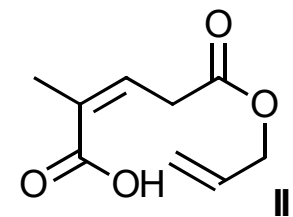
- 10) **II**, *n*-BuLi
- 11) DMP, pyridine
- 12) SiO₂, heat, low pressure
- 13) AllocCl, NaHCO₃

- 14) **III**, MNBA, DMAP, DIPEA
- 15) Pd(PPh₃)₄, morpholine
- 16) **IV**, TEA, slow addition

- 17) CAN
- 18) DBU
- 19) DDQ
- 20) HCl



Please, provide a synthesis of **II**.



Please, provide a synthesis of **III**.

