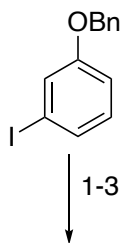


Synthesis Challenge 99

AG Wegner

11.11.2021

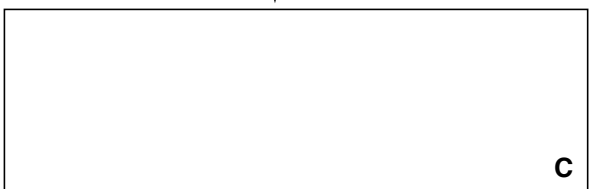


A

1-3



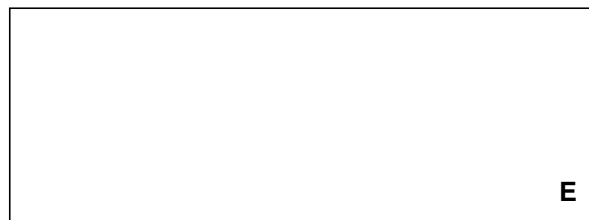
4-5



6-8



9-10

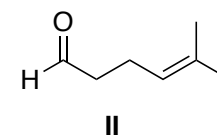
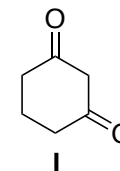


- 1) **I**, CuI, L-Proline, K₂CO₃, DMSO, 90°C
- 2) Ph₃P, I₂, DIPEA, MeCN, reflux
- 3) **II**, CrCl₂, NiCl₂, DMF, rt

- 4) IBX, DMSO, rt
- 5) NaBH₄, MeOH, 0°C

- 6) MeMgBr, Et₂O, -78°C to rt
- 7) Li, naphthalene, THF, -30°C
- 8) (COCl)₂, DMSO, Et₃N, DCM, -78°C to rt

- 9) PIDA, HFIP/DCM = 1/50, -78°C to -40°C
- 10) *hν*, MeOH, -78°C



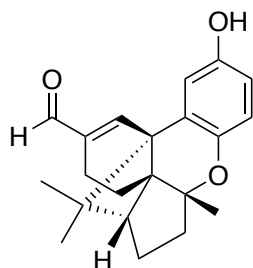
↓ 11-12



↓ 13-14



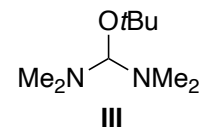
↓ 15-16



11) NaBH₄, CeCl₃·7H₂O, MeOH, -78°C
12) PivCl, DMAP, pyridine, 80°C

13) III, toluene, 100°C
14) Tf₂O, 2,6-lutidine, DCM, -78°C

15) Et₃SiH, Et₃N, Pd(PPh₃)₄, DMF, rt
16) K₂CO₃, MeOH, 0°C



Please, provide a beautiful 3D-drawing of the product!