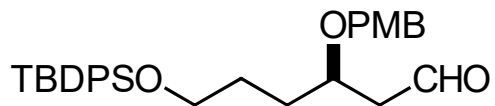


# Synthesis Challenge #81

AG Wegner

11.07.2019



↓ 1-3 A



↓ 4-8



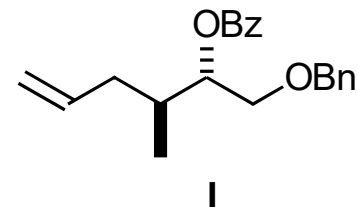
↓ 9-12



- 1) tetra(vinyl)tin, MeLi, THF, -78°C
- 2) DMP
- 3) I, Hoveyda-Grubbs-II

- 4) (*R*)-2-Me-CBS, BH<sub>3</sub>\*THF, THF, -40°C
- 5) (+)-DIPT, Ti(*O**i*Pr)<sub>4</sub>, *t*BuOOH, 4Å MS, CH<sub>2</sub>Cl<sub>2</sub>, -40°C
- 6) TBSCl, imidazole
- 7) DDQ
- 8) PPTS

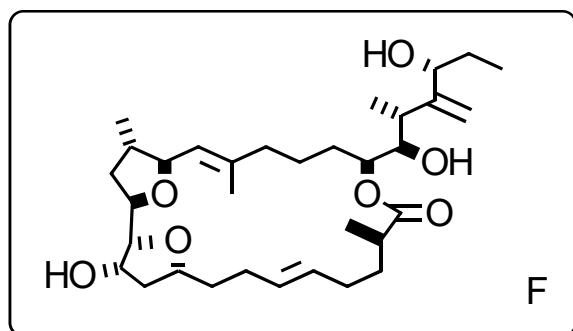
- 9) MsO<sub>2</sub>, py, 60°C
- 10) K<sub>2</sub>CO<sub>3</sub>, MeOH, 60°C; LiDBB
- 11) SO<sub>3</sub>•py, Et<sub>3</sub>N, DMSO
- 12) Ohira-Bestmann, K<sub>2</sub>CO<sub>3</sub>, MeOH



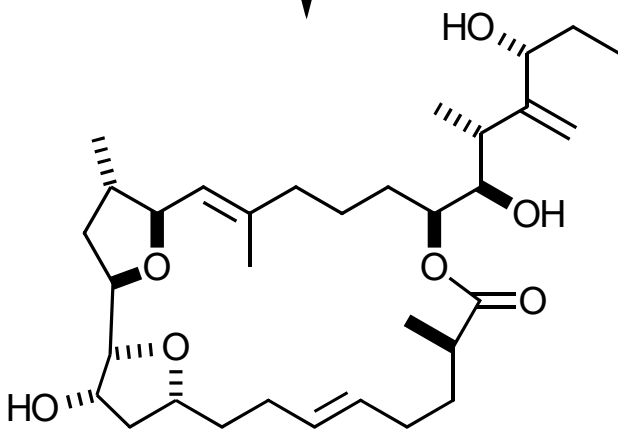
↓ 13-18



↓ 19-21



↓ 22-23



- 13) *n*BuLi, MeI
- 14) Bu<sub>3</sub>Sn(Bu)Cu(CN)Li<sub>2</sub>, MeOH, THF, -78°C
- 15) I<sub>2</sub>, CH<sub>2</sub>Cl<sub>2</sub>, -20°C
- 16) TBAF, AcOH
- 17) SO<sub>3</sub>\*py, Et<sub>3</sub>N, DMSO
- 18) Ph<sub>3</sub>P<sup>+</sup>CH<sub>3</sub>Br<sup>-</sup>, NaHMSDS

- 19) **II**, 9-BBN-H, THF, then E, aq. CsCO<sub>3</sub>, [PdCl<sub>2</sub>(dppf)\*CH<sub>2</sub>Cl<sub>2</sub>], Ph<sub>3</sub>As, DMF
- 20) PPTS
- 21) **III**, 2,4,6-Cl<sub>3</sub>C<sub>6</sub>H<sub>2</sub>COCl, Et<sub>3</sub>N, THF, then DMAP, toluene

- 22) Grubbs-II, toluene
- 23) HF\*py, THF

