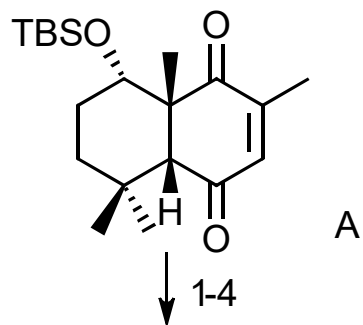


Synthesis Challenge # 66

AG Wegner

17.08.2017



- 1) acetylene, n-BuLi
- 2) $\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$
- 3) DIBAL-H
- 4) Bz_2O , DMAP



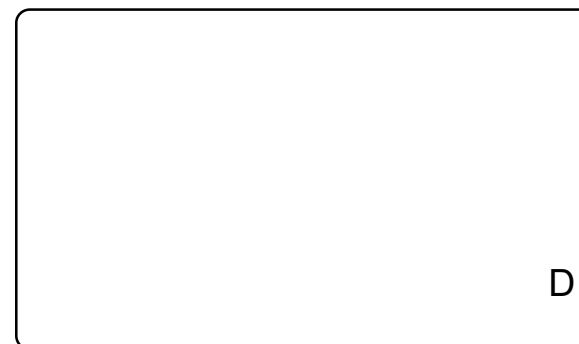
5-7

- 5) PCC, NaOAc
- 6) DIBAL-H
- 7) 2-methoxypropene, PPTS

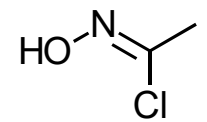


8-10

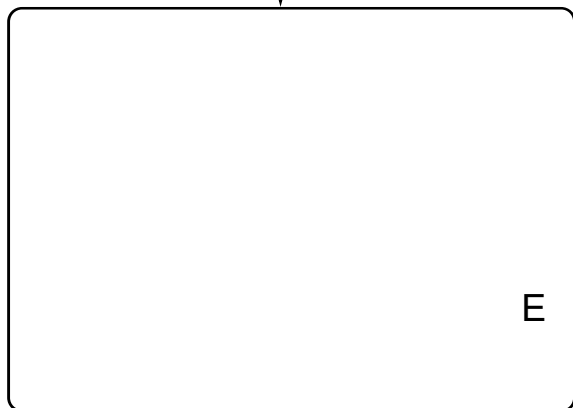
- 8) **I**, Et_3N
- 9) AuCl_3
- 10) TBAF



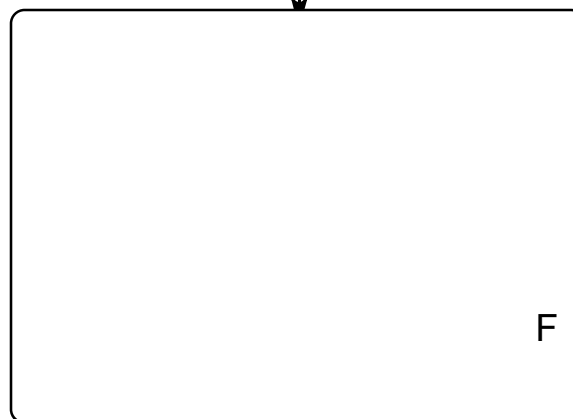
Please provide a synthesis for A.



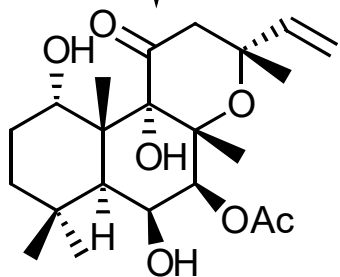
11-13



14



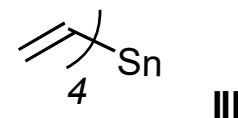
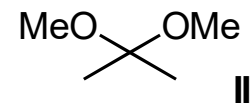
15-17



11) $K_2[OsO_2(OH)_4]$, NMO,
citric acid
12) II, TSOH
13) Raney-Ni, H_2

14) HCl (dioxane)

15) III, *n*-BuLi, CuCN, $BF_3 \cdot Et_2O$
16) TsOH, H_2O ,
17) Ac_2O , pyridine



Please provide a nice 3D representation of the final product.