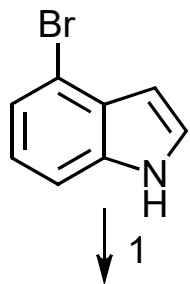


Synthesis Challenge #78

AG Wegner

28.03.2019



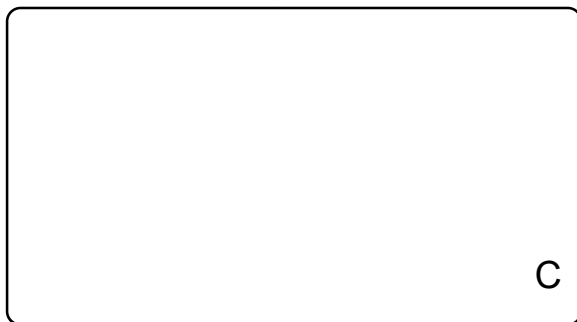
A

1) NaH, MeI, THF, rt



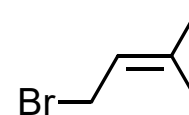
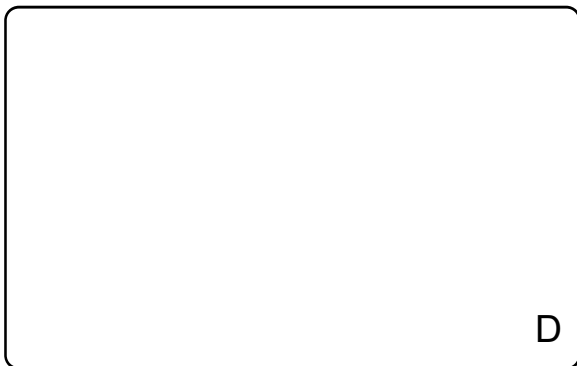
2

2) Mg, THF, reflux, then I, rt

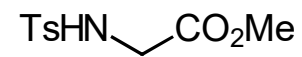


3, 4

3) POCl₃, DMF, RT,
then KOH (aq.), 90°C
4) LHMDS, II, THF, -78°C



I



II

↓ 5, 6

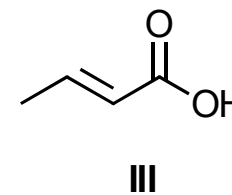


5) Tf_2NH , CH_2Cl_2 , 35°C
6) Mg , MeOH/THF , rt

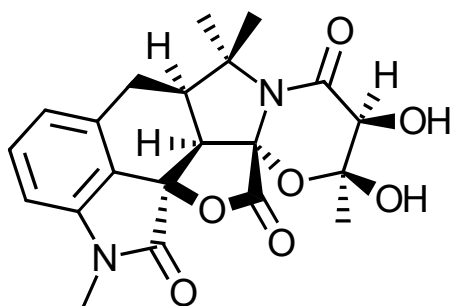
↓ 7, 8



7) **III**, DMAP , EDC^*HCl , CH_2Cl_2 ,
8) NaHMDS , Ph_3P , O_2 , THF , -78°C



↓ 9,10



9) NCS , HCl , $t\text{BuOH/H}_2\text{O}$ (4:1)
10) RuCl_3 , $\text{Oxone}^\text{®}$, NaHCO_3 ,
 $\text{CH}_3\text{CN/H}_2\text{O/EtOAc}$