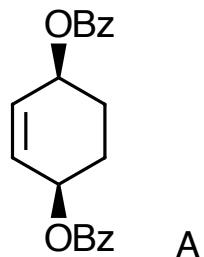


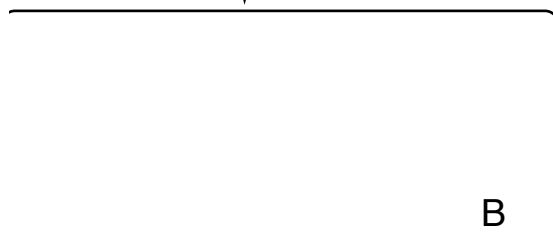
Synthesis Challenge # 43

AG Wegner

04.02.2016



1-3



4-6



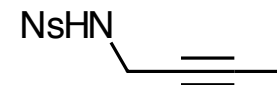
7-8



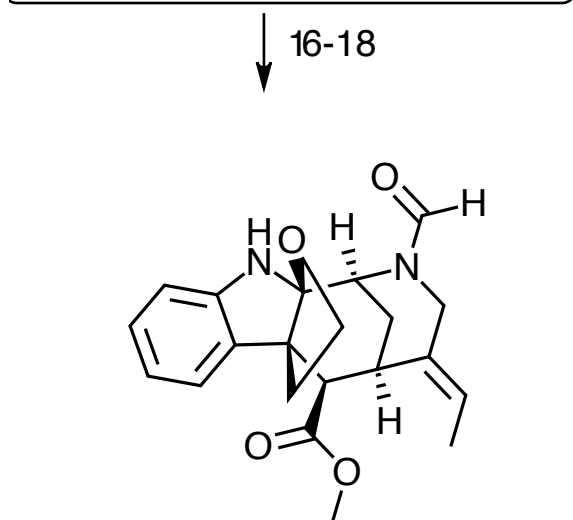
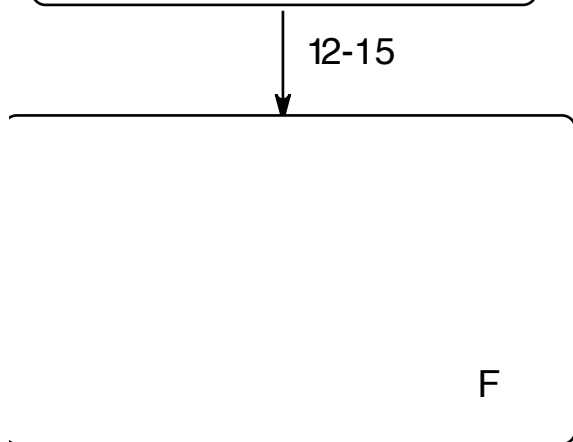
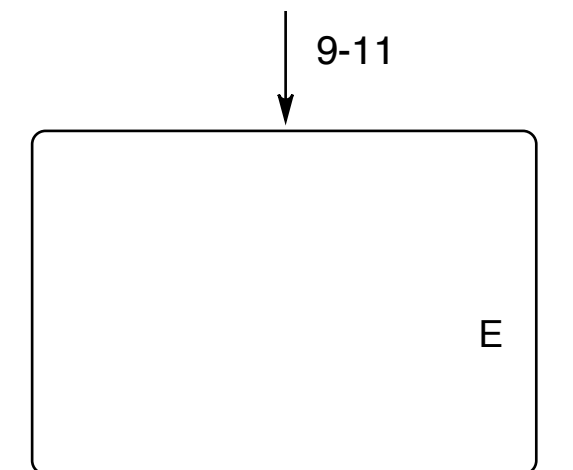
- 1) I, $[\text{PdCl}(\text{C}_3\text{H}_5)]_2$, Trost ligand
 Cs_2CO_3 , CH_2Cl_2
- 2) $\text{LiOH} \cdot \text{H}_2\text{O}$, MeOH
- 3) PCC, CH_2Cl_2

- 4) TBSDPSOTf, 2,6-lutidine
- 5) $\text{Au}(\text{PMe}_3)\text{Cl}$, AgOTf
- 6) *p*-TsOH \cdot H₂O

- 7) $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$, THF, H₂O, 65°C
- 8) $\text{Cl}(\text{Ph})_3\text{P}-\text{CH}_2\text{OMe}$, KO^tBu, THF



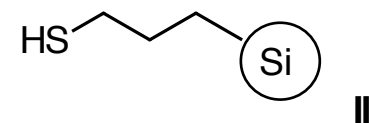
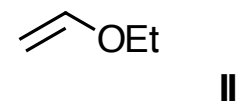
I



9) NIS, K_2CO_3 , MeOH
 10) II, NIS, CH_2Cl_2 , $-20^\circ C$
 11) nBu_3SnH , AIBN, $75^\circ C$, toluene

12) AcOH, H_2O , THF, $75^\circ C$
 13) $NaBH_4$, MeOH, $0^\circ C$
 14) *p*TsOH, benzene, $80^\circ C$
 15) Dess-Martin, CH_2Cl_2 , $40^\circ C$

16) $PhNHNH_2$, TFA, $40^\circ C$, 1,2-dichloroethane, then K_2CO_3 , MeOH, $65^\circ C$
 17) III, Cs_2CO_3 , MeCN, $65^\circ C$
 18) formic acid, EDAC, DMAP, CH_2Cl_2



Please provide a nice 3D drawing of the final product!