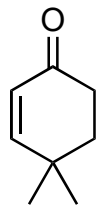


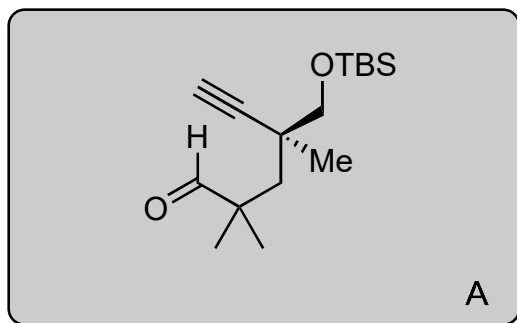
Catalytic Asymmetric Total Synthesis of Hypocrolide A

Qiao, C.; Zhang, W., Han, J-C.; Li, C-C.

Org. Lett. 2016, 18, 4932–4935.



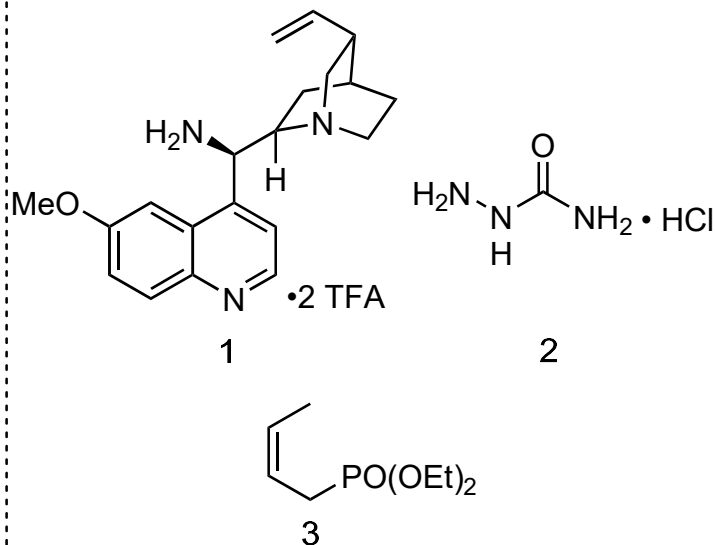
1-6



7-9



- 1) 1, H₂O₂
- 2) LDA, MeI
- 3) DBU, formaldehyde
- 4) TBSCl, imidazole
- 5) 2, NaOAc, EtOH/H₂O
- 6) Pb(OAc)₄, DCM

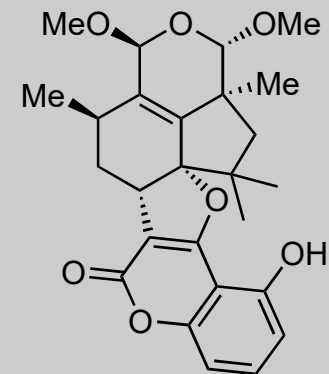


- 7) *n*BuLi, 3 then A then LDA, Boc₂O
- 8) [Rh(COD)Cl]₂, TFE
- 9) TsOH, toluene, reflux

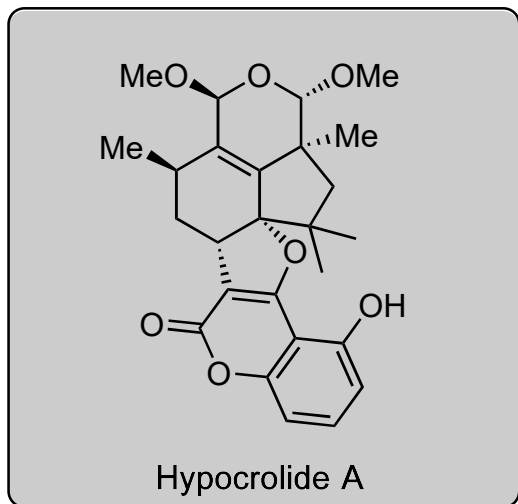
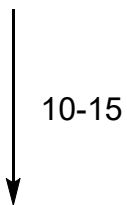
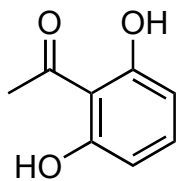
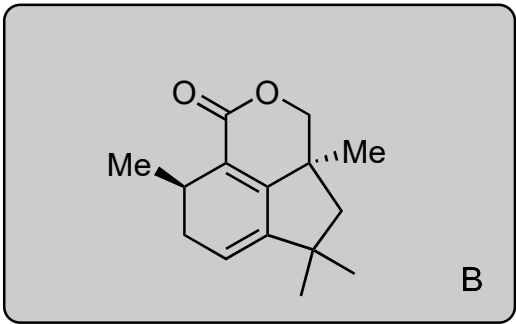
1) Who developed these conditions?
Ben List

5&6) Variant of what rxn type?
Eschenmoser–Tanabe
Fragmentation

8) Name of rxn? Diels–Alder



Hypocrolide A



- 10) K_2CO_3 , PMBCl
- 11) NaH, dimethyl carbonate,
- 12) B, CAN, $Cu(OAc)_2$, HOAc
- 13) $LiAlH_4$
- 14) $COCl_2$, DMSO, *then* NEt_3
- 15) TFA, DCM/MeOH

14) Name of rxn? Swern