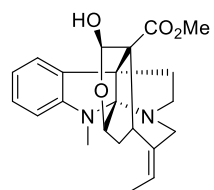
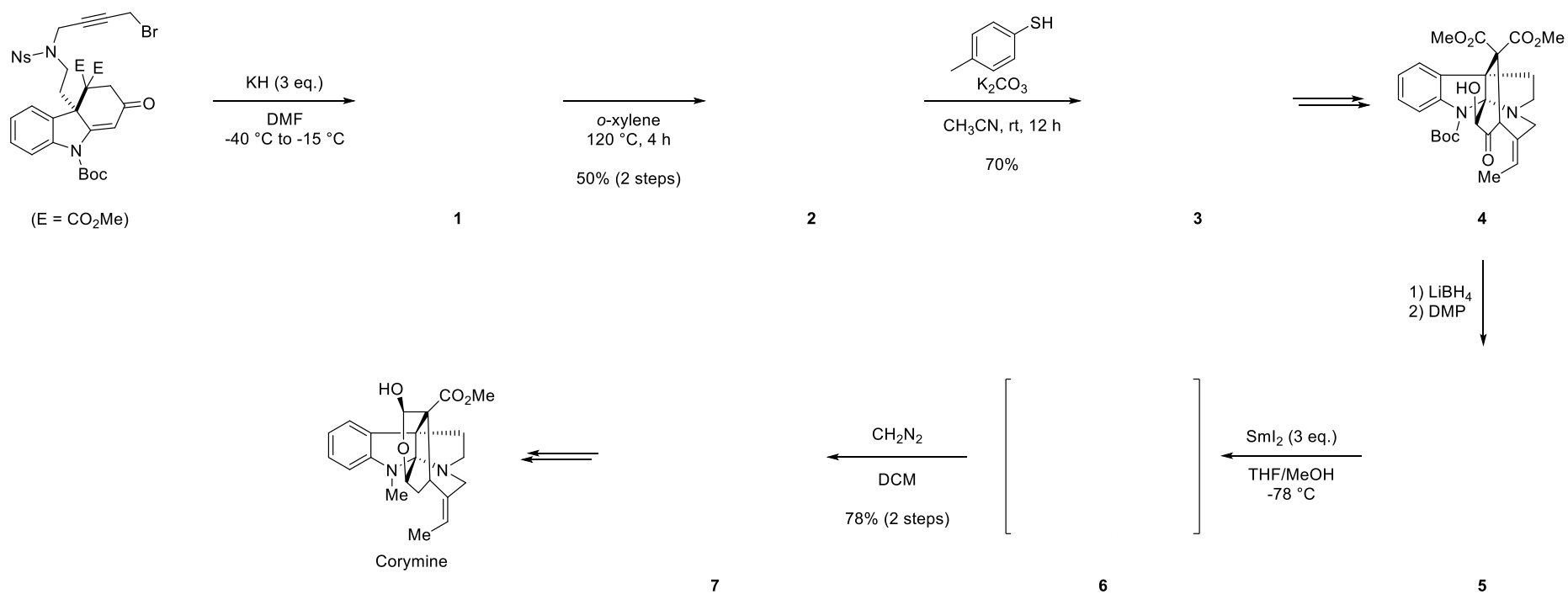


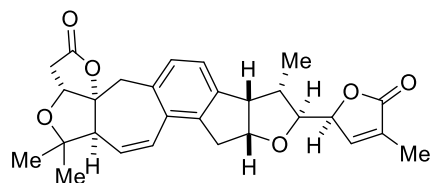
B. Zhang, X. Wang, C. Cheng, D. Sun, C. Li *Angew. Chem. Int. Ed.* **2017**, *56*, 7484-7487.



- Isolated from the leaves of *Hunteria corymbosa*
- Member of the akuammiline family
- Exhibits glycine receptor antagonism
- Racemic synthesis (21 steps)

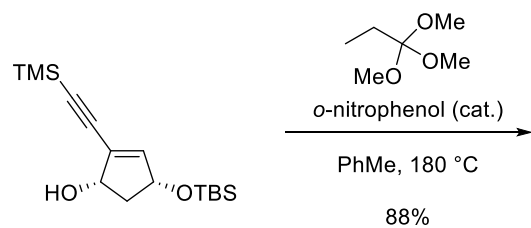


P. Yang, M. Yao, J. Li, Y. Li, A. Li, *Angew. Chem. Int. Ed.* **2016**, 55, 6964–6968.



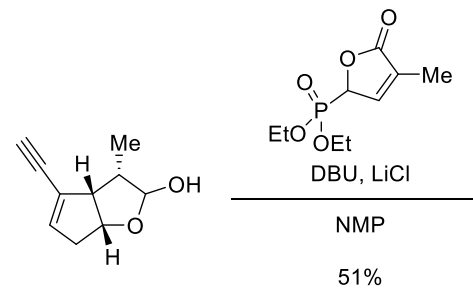
Rubriflordilactone B

- Isolated from *Schisandra rubriflora*
- Bisnortriterpenoid
- anti-HIV activities
- First asymmetric synthesis



Propose a retrosynthesis

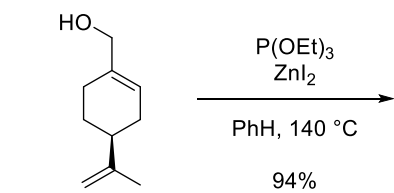
8



Fragment A

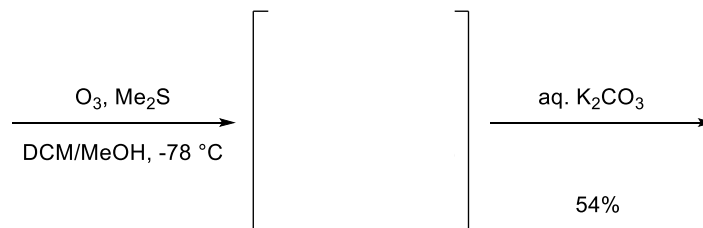
9

mechanism?



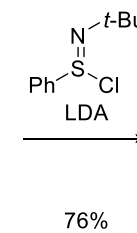
(-)-perillyl alcohol

10

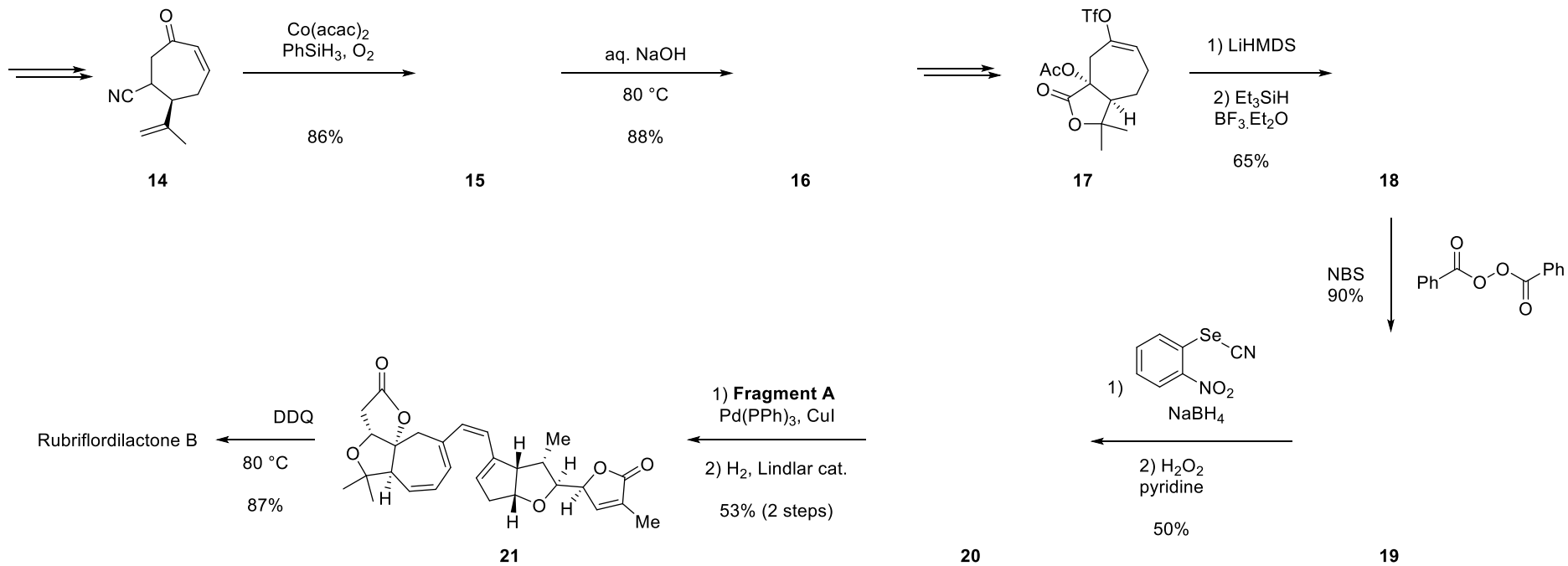


11

12

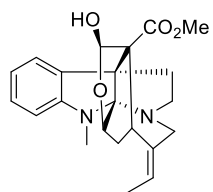


13



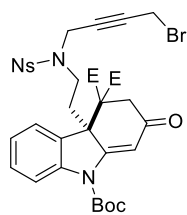
Solutions

B. Zhang, X. Wang, C. Cheng, D. Sun, C. Li *Angew. Chem. Int. Ed.* **2017**, *56*, 7484-7487.

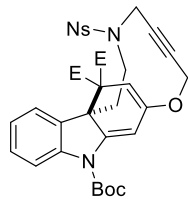
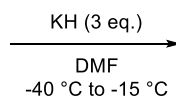


Corymine

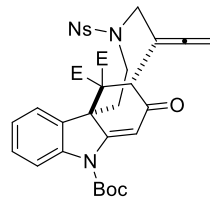
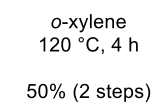
- Isolated from the leaves of *Hunteria corymbosa*
- Member of the akuammiline family
- Exhibits glycine receptor antagonism



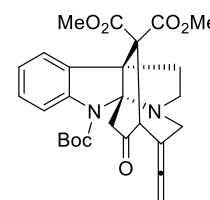
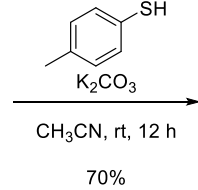
(E = CO₂Me)



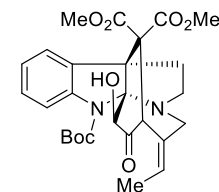
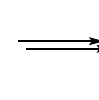
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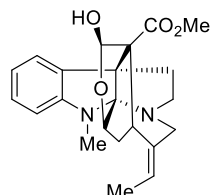
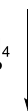
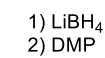
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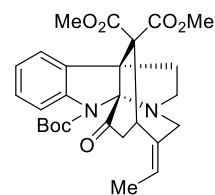
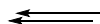
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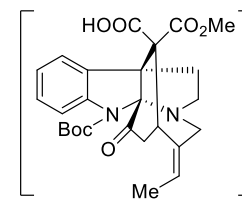
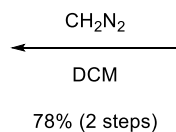
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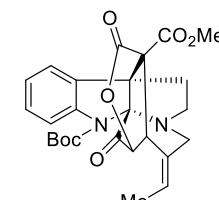
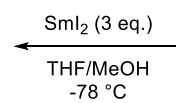
Corymine



7



6



5

P. Yang, M. Yao, J. Li, Y. Li, A. Li, *Angew. Chem. Int. Ed.* **2016**, *55*, 6964–6968.

