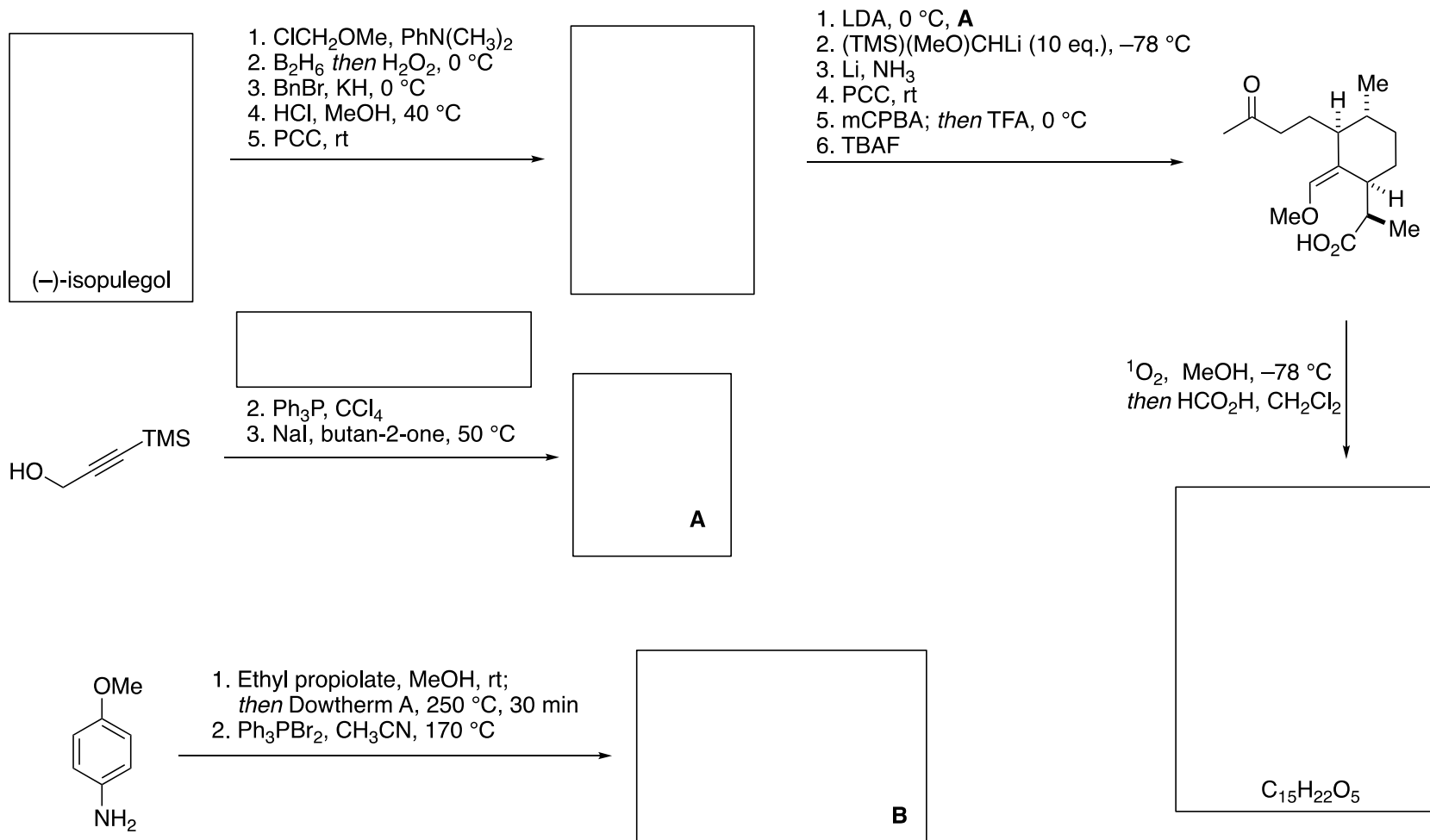
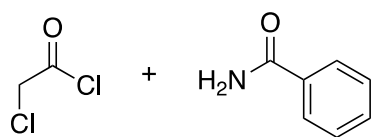


E71: Synthesis of (–)-Artemisinin and Quinine^[1,2]

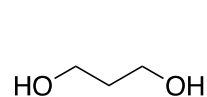
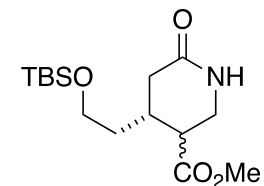


^[1] G. Schmid, W. Hofheinz, *JACS* **1983**, *105*, 624.

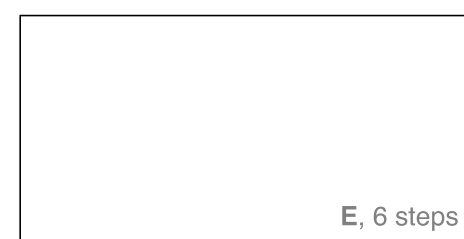
^[2] I. T. Raheem, S. N. Goodman, E. N. Jacobsen, *JACS* **2004**, *126*, 706.



1. 110°C, neat
2. (EtO)₃P, 80 °C

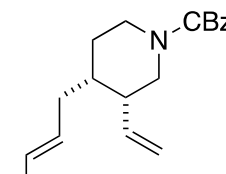


1. NaH, TBSCl
2. DMSO, (COCl)₂, Et₃N

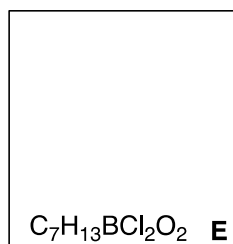
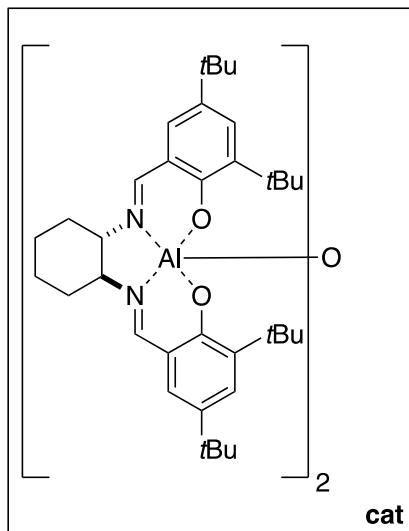


7. B, Pd(OAc)₂, SPhos, K₃PO₄ · H₂O

1. ADmix-β, CH₃SO₂NH₂, *t*BuOH
2. trimethylorthoacetate, PPTS
then acetyl bromide
then K₂CO₃ MeOH
3. Et₂AlCl, thioanisole, 0 °C
then μW, 200 °C



carbon core structure of B



[1] G. Schmid, W. Hofheinz, *JACS* **1983**, *105*, 624.

[2] I. T. Raheem, S. N. Goodman, E. N. Jacobsen, *JACS* **2004**, *126*, 706.

