

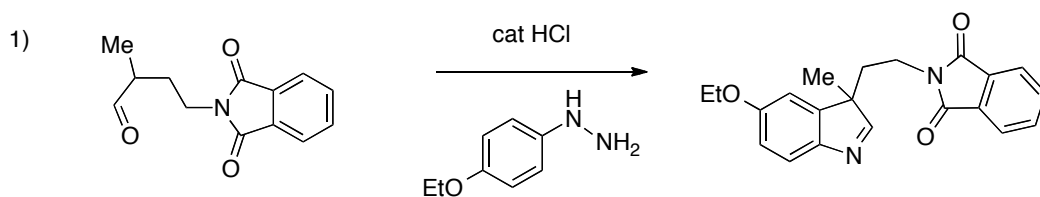
Chem 635
Exam 1
Spring 2011
Prof. Fox

Name

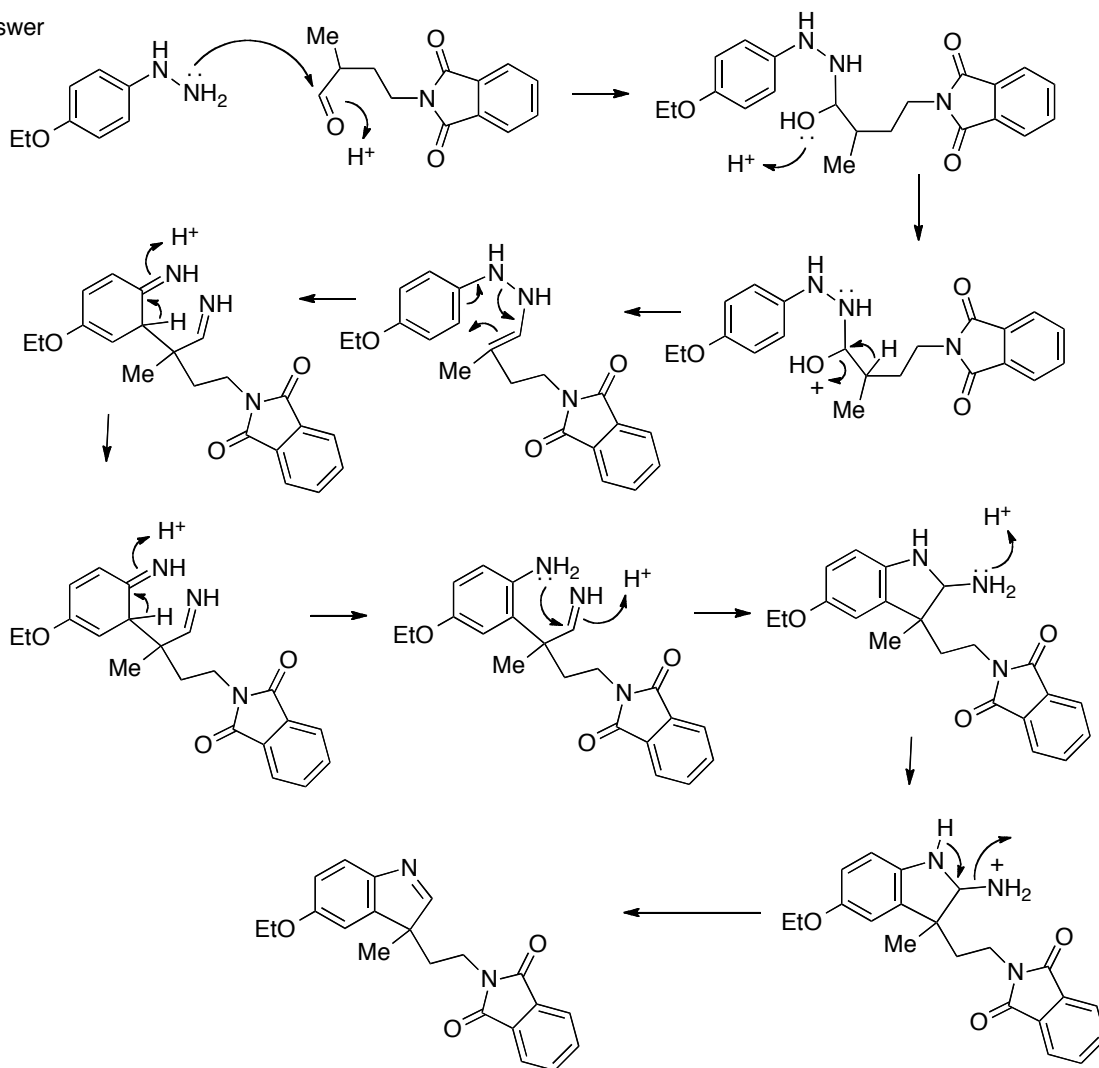
Part 1: problems 1-7. Complete 6 of these questions. Clearly indicate the question you do not want graded.

Part 2: synthesis problems: complete 5 of these questions.

Provide mechanisms

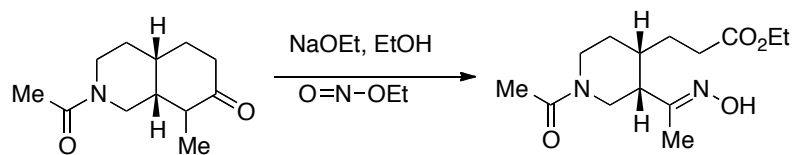


Answer

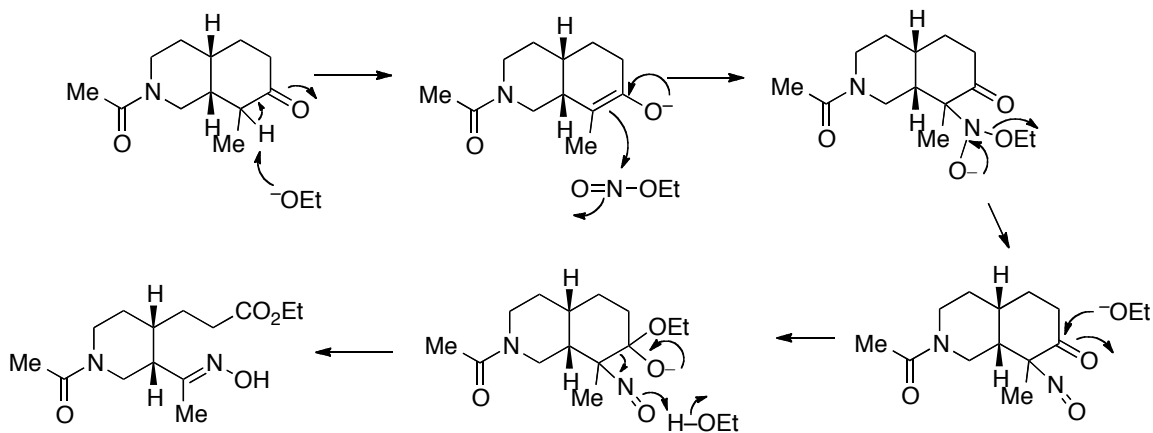


Provide a mechanism

2)

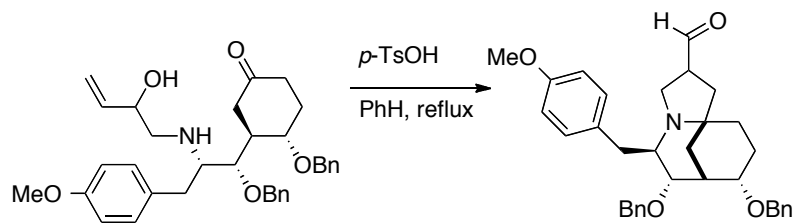


Answer



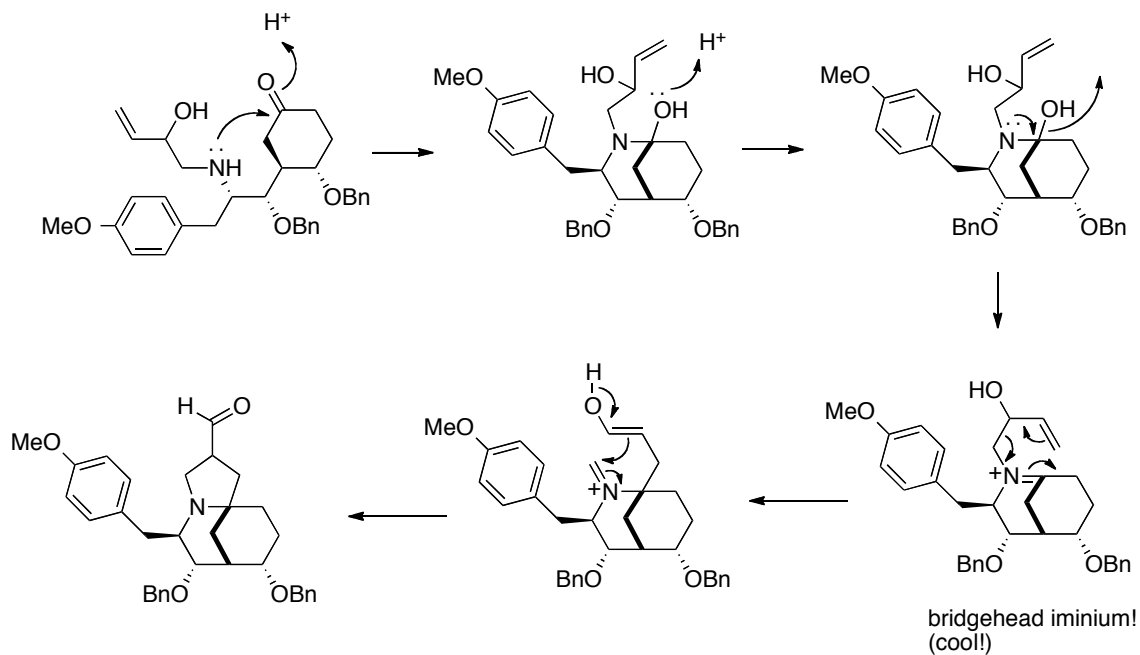
Provide a mechanism

3)

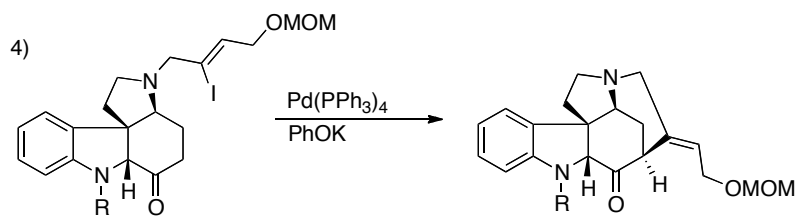


work of Kay Brummond

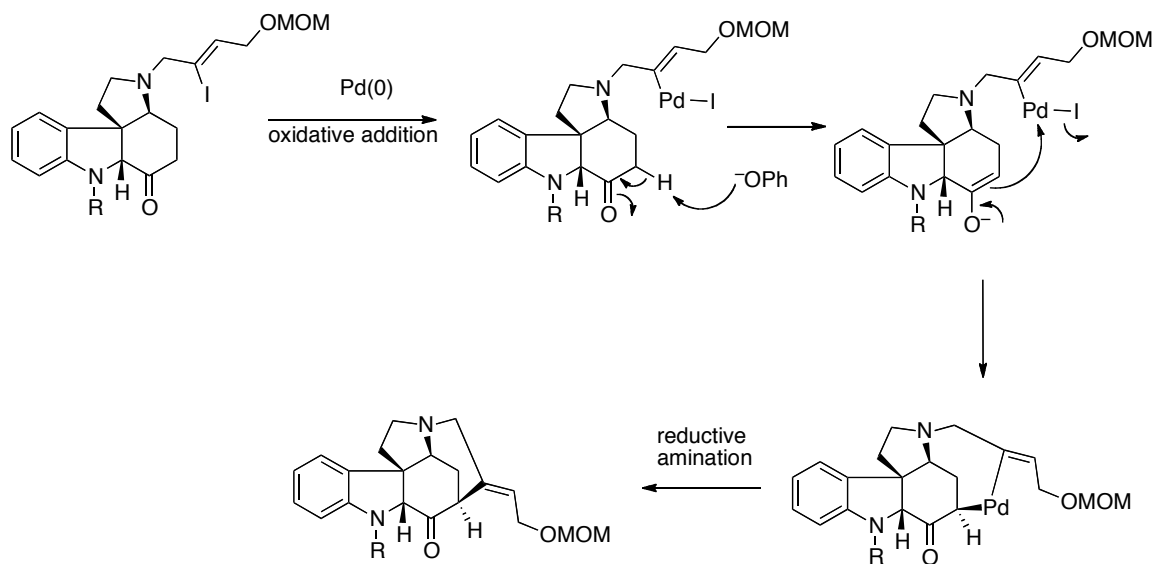
Answer



Provide a mechanism

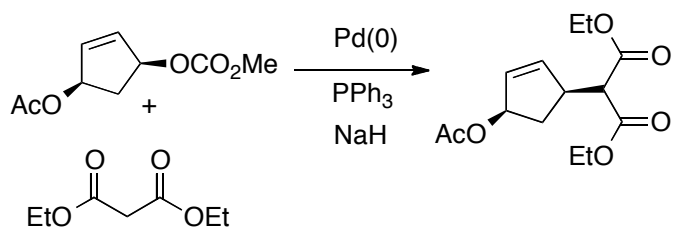


Answer

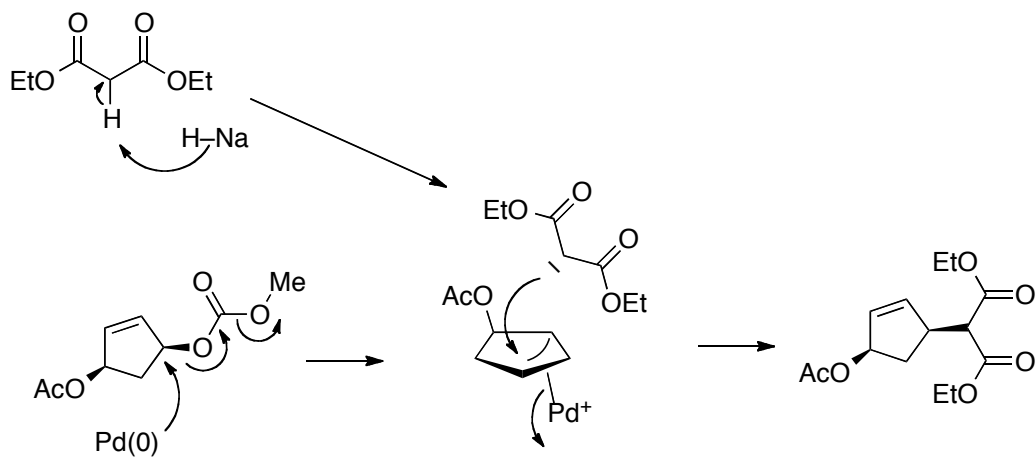


Provide a mechanism

5)

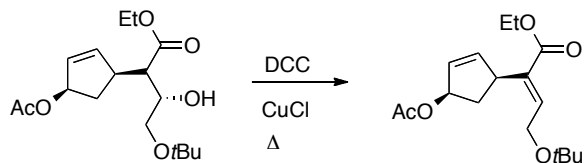


Explain stereospecificity



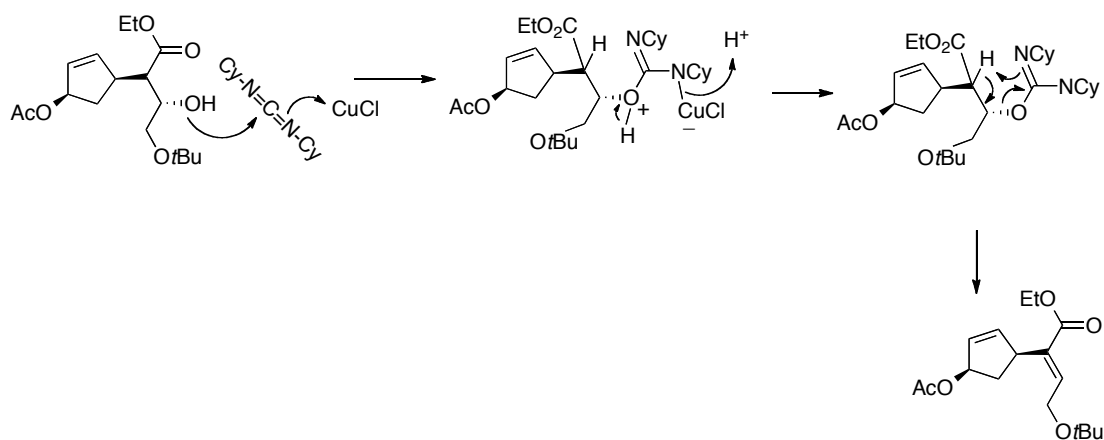
Provide a mechanism

6)



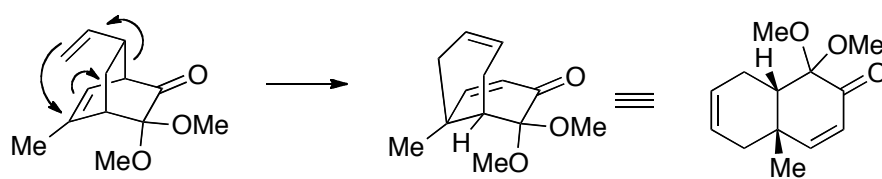
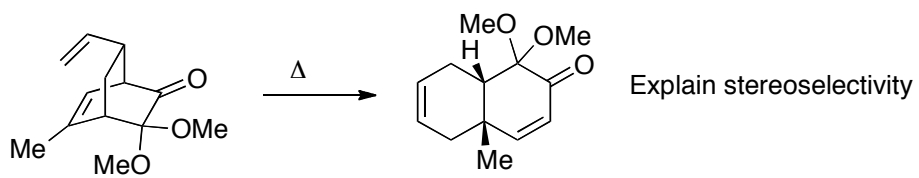
DCC = Cy-N=C=N-Cy

Explain stereospecificity

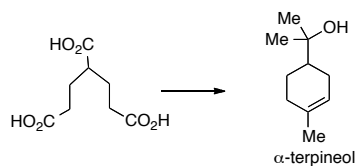


Provide a mechanism

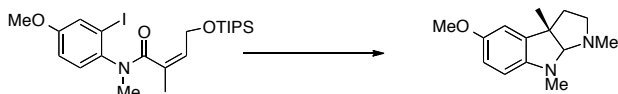
7.



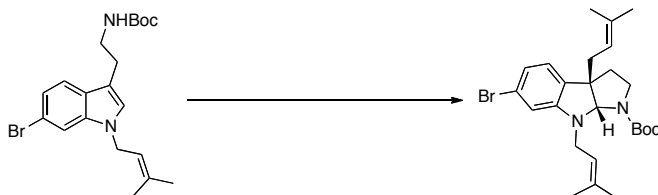
Describe Perkin's synthesis of α -terpineol



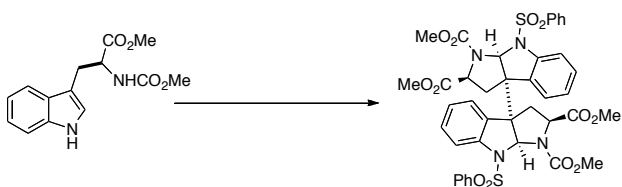
Describe the following steps of Overman's synthesis of physostigmine



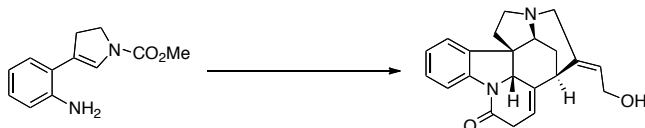
Describe the following steps of MacMillan's synthesis of flustramine B



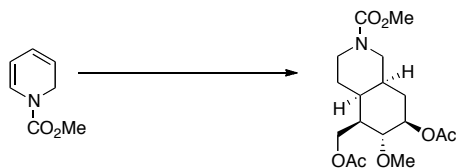
Describe the following steps of Movassaghi's synthesis of chimonanthine



Describe the following steps of Rawal's synthesis of strychnine



Describe the following steps of Wender's synthesis of reserpine



Describe the following steps of Martin's synthesis of reserpine

