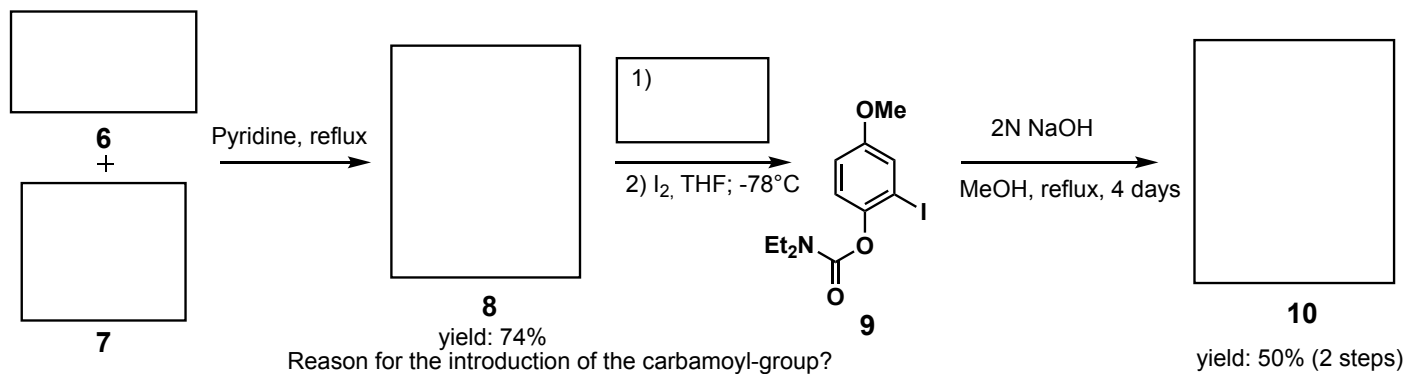
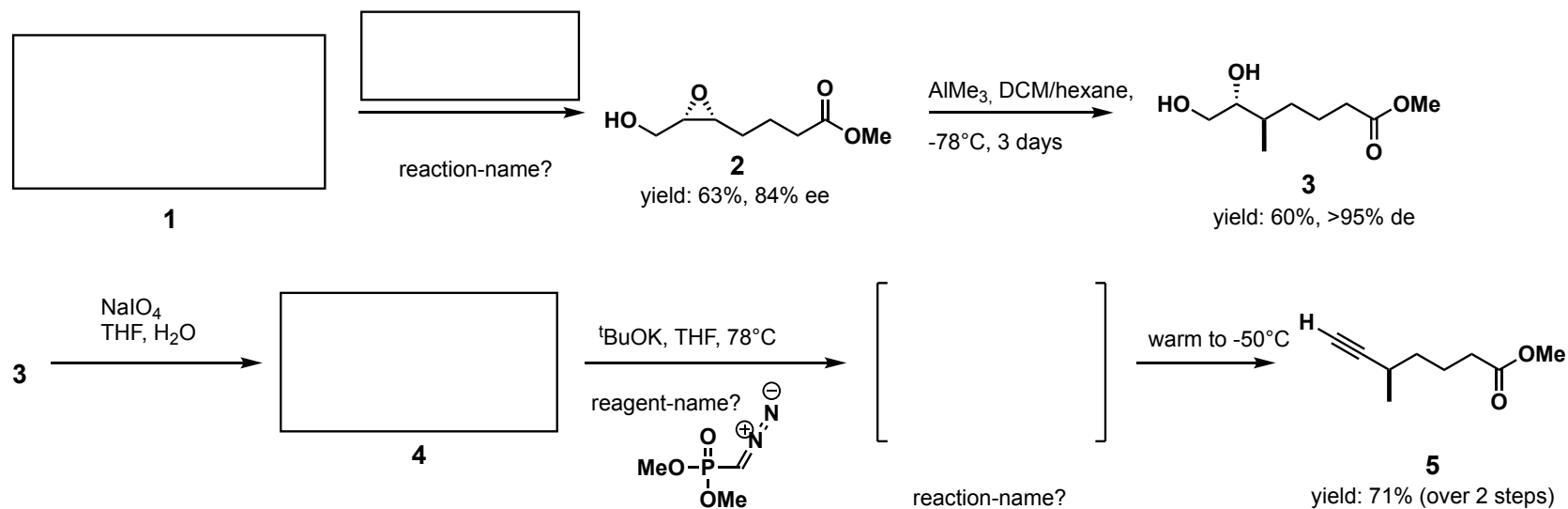
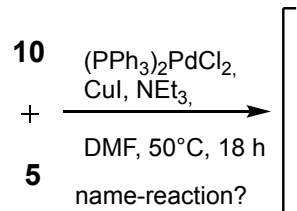


Total Synthesis and Determination of the Absolute Configuration of Frondosin B

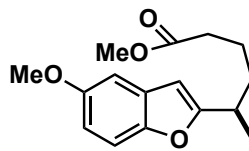
Masayuki Inoue, Matthew W. Carson, Alison J. Frontier, and Samuel J. Danishefsky

J. Am. Chem. Soc. 2001, 123, 9, 1878-1889

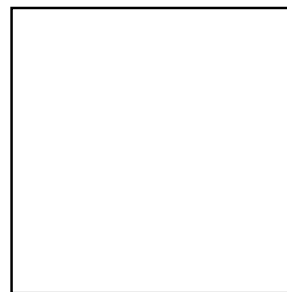




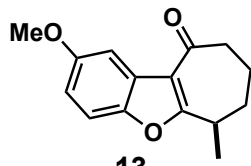
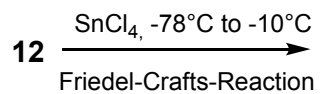
cyclization



11
 yield: 62%

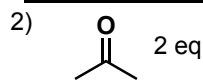


12



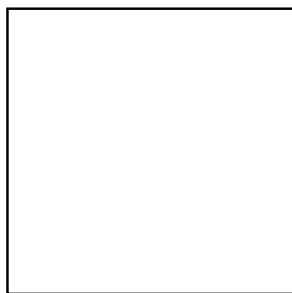
13
 yield: 62%, 84% ee

1) LiHMDS 3eq, TMSCl 3 eq,
 THF, -40 °C, 1h



TiCl₄, 0°C, 1 h

name reaction?

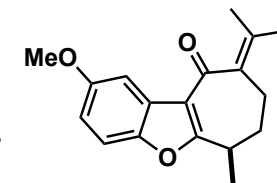


14

yield: 70% (in second step), 60% de

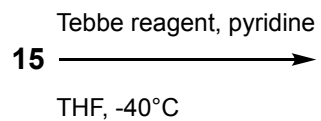
1) MsCl, NEt₃,
 DCM, 0°C

2) PdCl₂(MeCN)₂,
 PhH, reflux



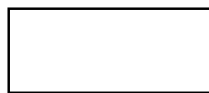
15

yield: 93%, 84% ee

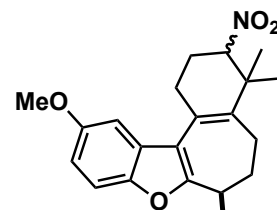


16

yield: 97%

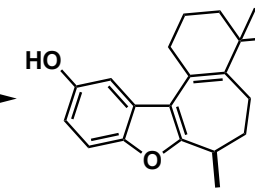
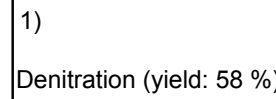


name-reaction?



17

yield: 79%



18

yield: 94%