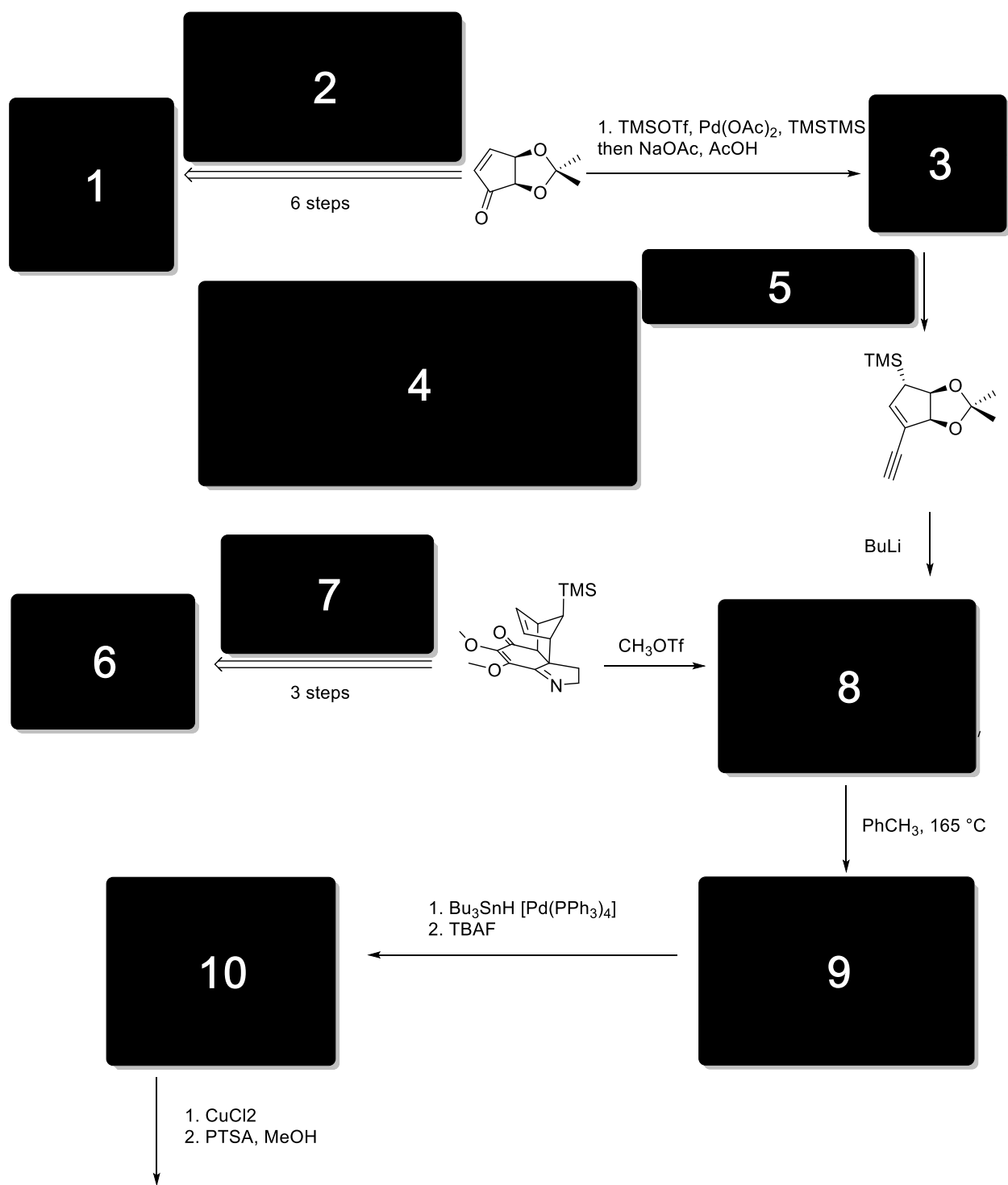


Total Syntheses of (-)-Acutumine and (-)-Dechloroacutumine

Angew. Chem. Int. Ed. 2013, 52, 3642–3645



11

1. TFAA, DMSO, DIPEA, -60 °C
then NaSCH₃
2. CH₂N₂

12

13

1. NIS, HCO₂H
2. DIPEA, CH₃CN, 100 °C
3. NH₃, CH₃OH

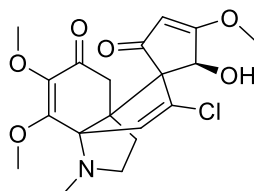
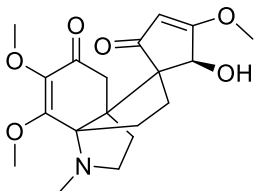
15

1. DMP
2. NaBH₄

14

16

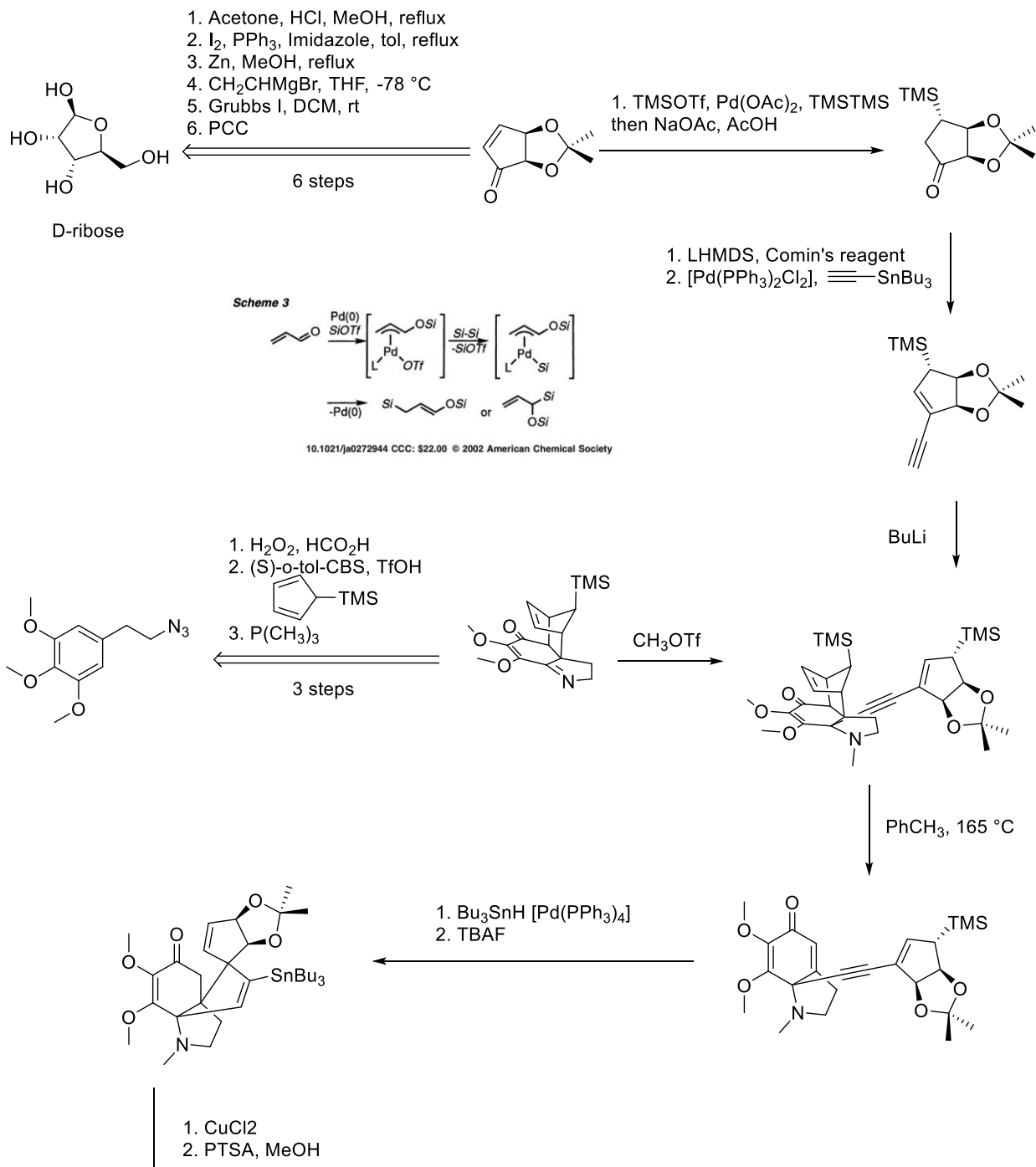
17

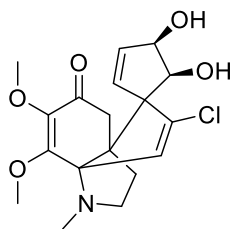


SOLUTION

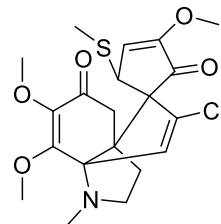
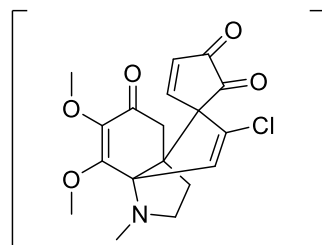
Total Syntheses of (-)-Acutumine and (-)-Dechloroacutumine

Angew. Chem. Int. Ed. 2013, 52, 3642–3645

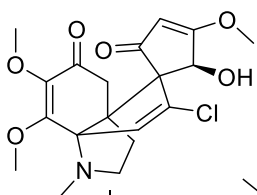




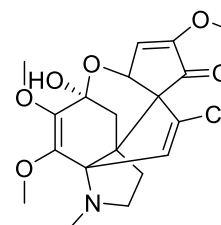
1. TFAA, DMSO, DIPEA, -60 °C
then NaSCH₃
2. CH₂N₂



1. NIS, HCO₂H
2. DIPEA, CH₃CN, 100 °C
3. NH₃, CH₃OH



1. DMP
2. NaBH₄



1. H₂, Pd/C

1. H₂, [Rh(nbd)(dppb)]BF₄

