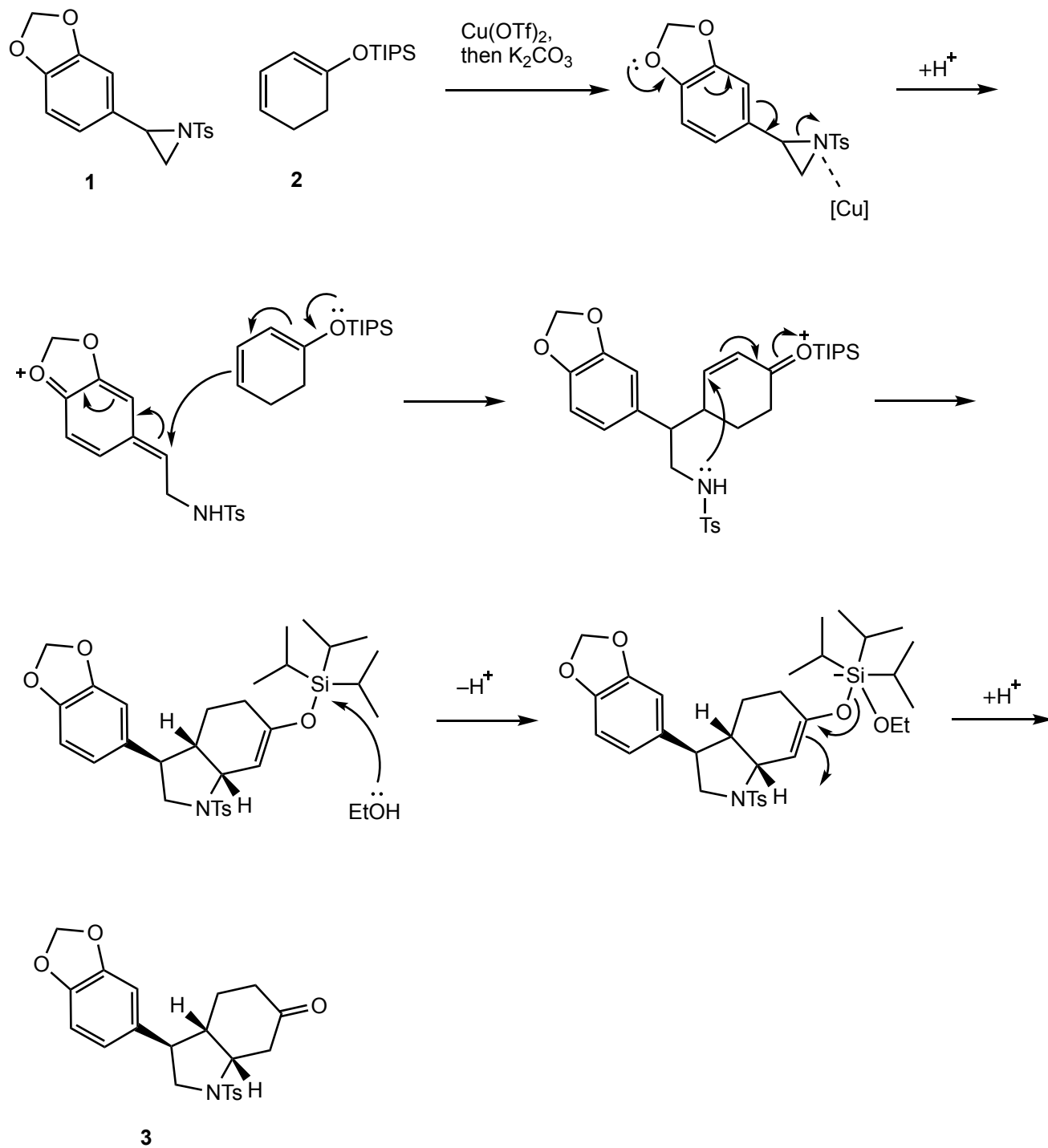
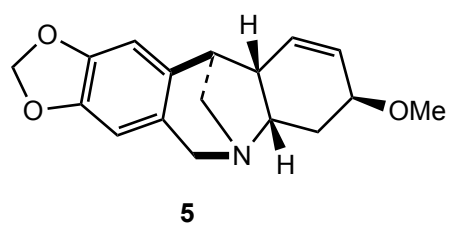
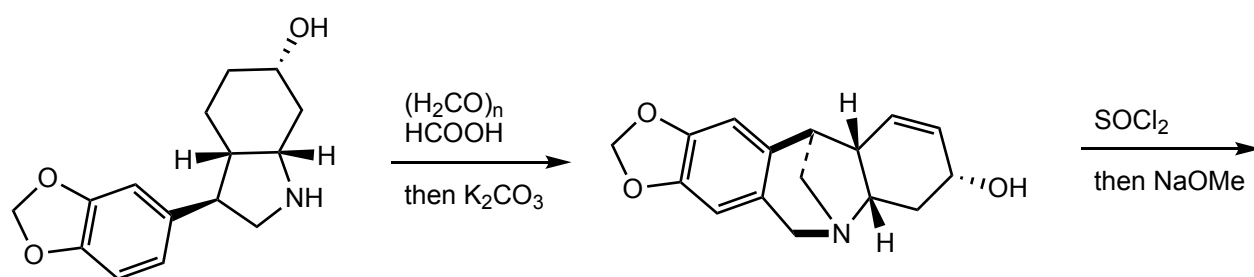


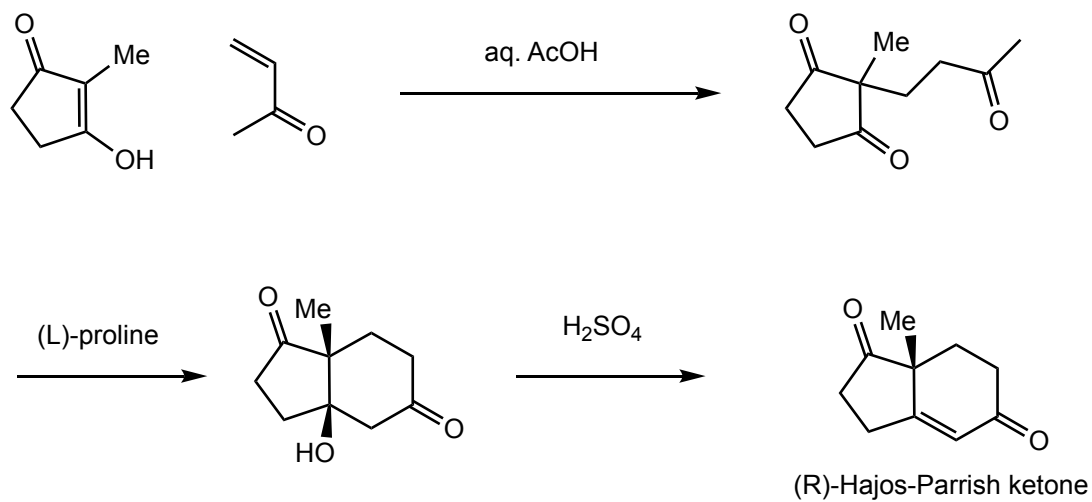
Q1. Propose reasonable arrow-pushing mechanisms (**1+2** → **3**).



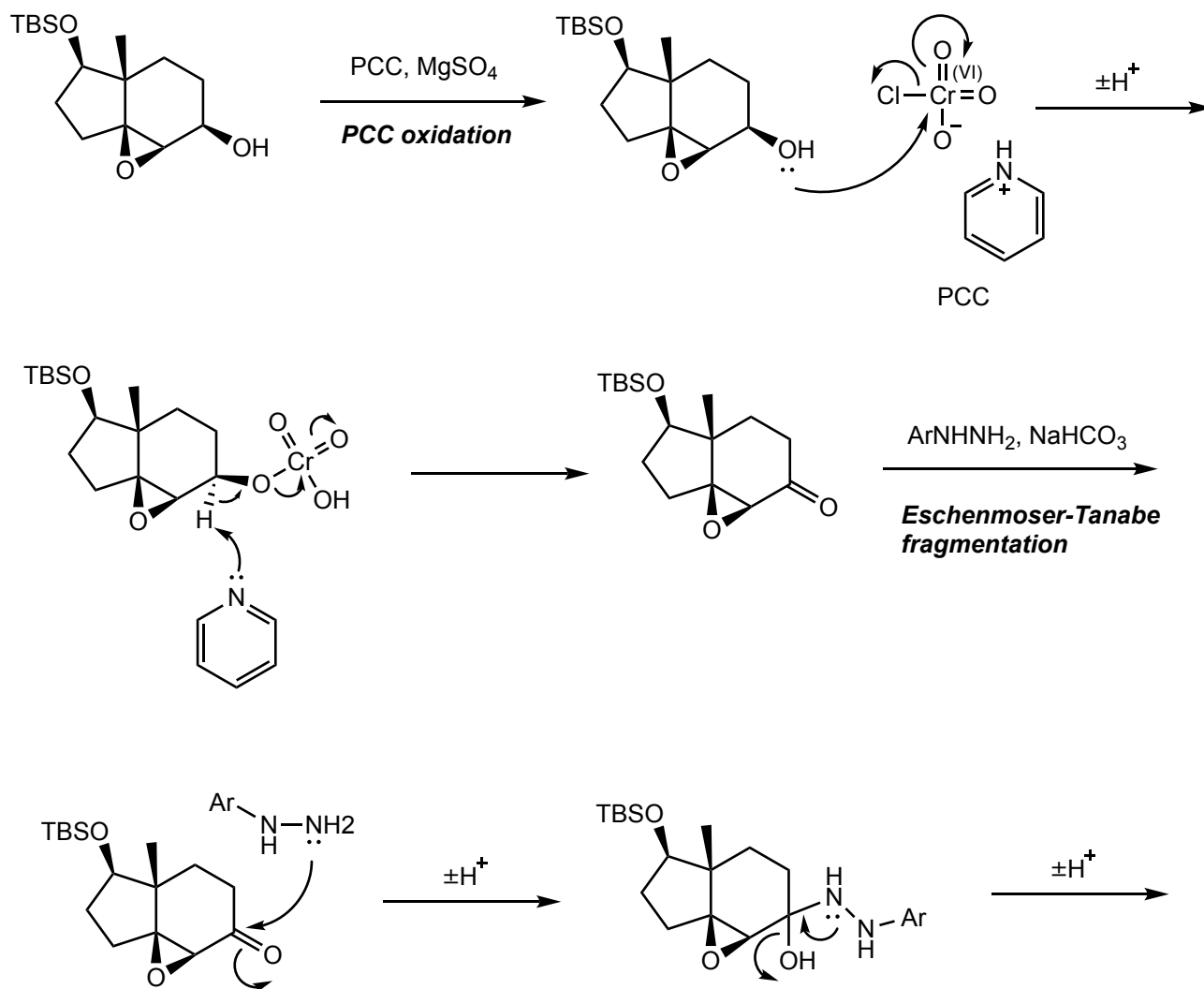
Q2. Propose the synthetic route (4 → 5).

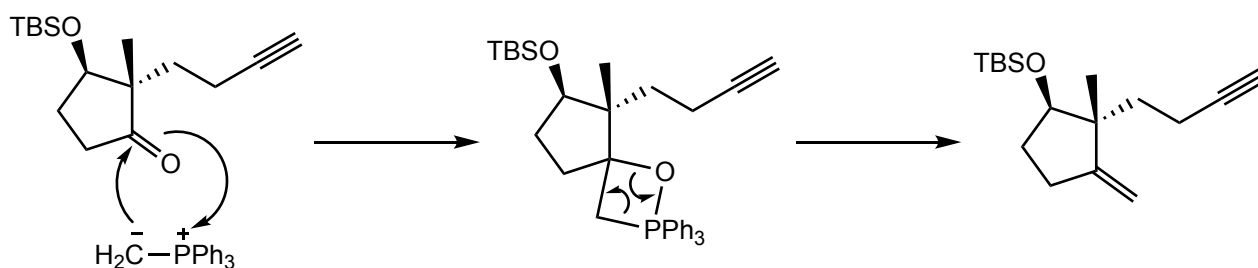
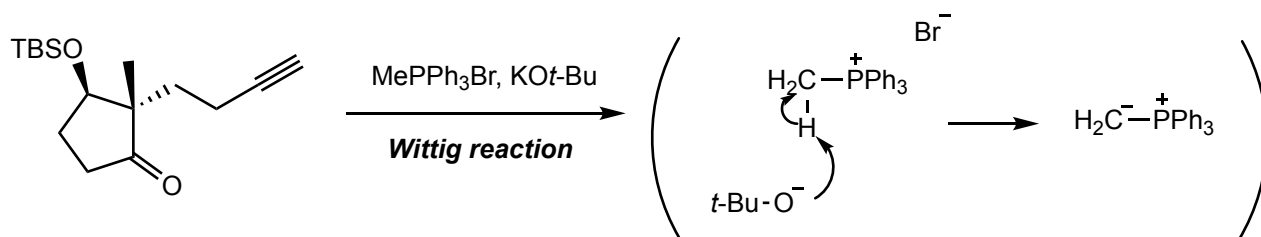
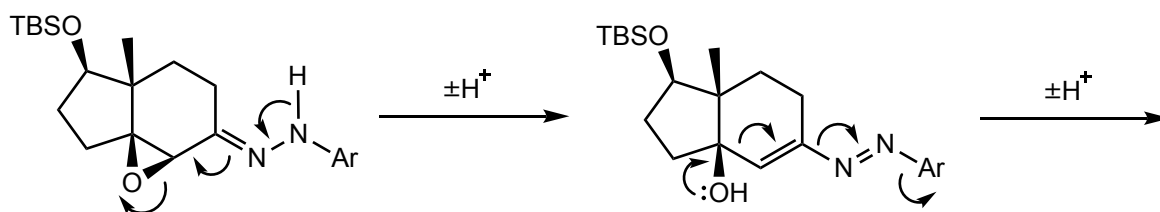


propose the starting material and conditions.



reaction mechanism (1)





reaction mechanism (2)

