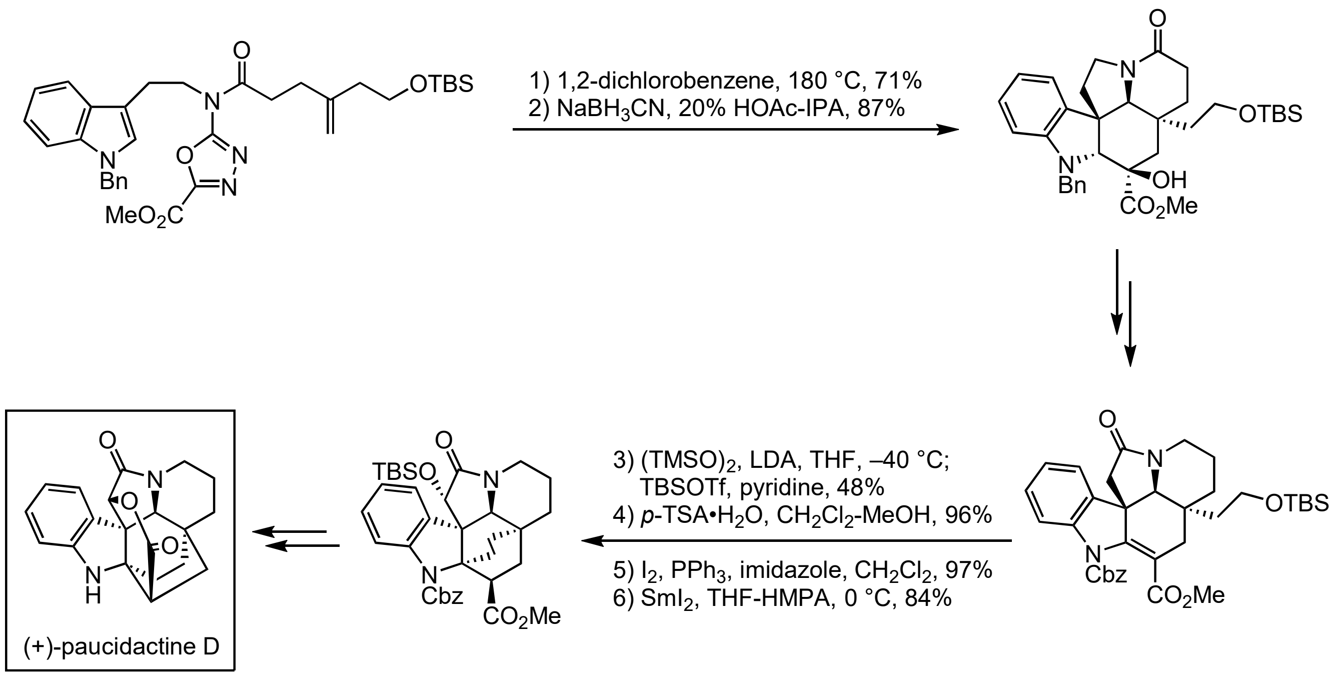

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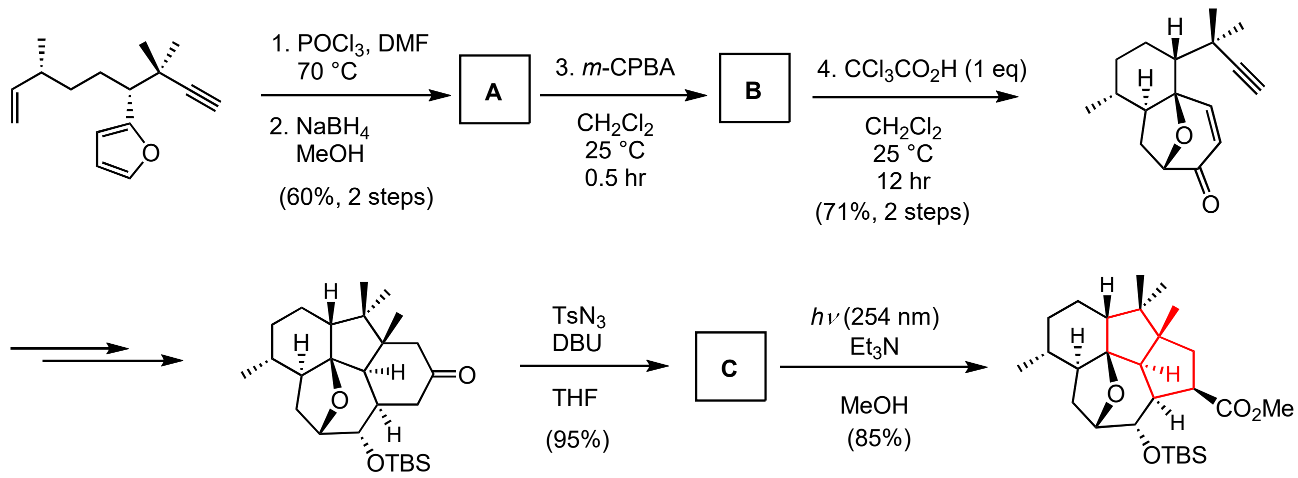
Q. Explain the reaction mechanism for each step in the following synthesis.



A: $C_{17}H_{24}O_2$

B: $C_{17}H_{24}O_3$

Selected ^{1}H NMR δ, 6.76 (d, *J*=6.8 Hz, 1H), 6.33 (d, *J*=6.8 Hz, 1H), 5.07 (d, *J*=12.4 Hz, 1H), 4.97 (d, *J*=12.4 Hz, 1H)

Selected ^{13}C NMR δ, 193.8, 143.8, 128.7, 103.6, 64.7

C: $C_{26}H_{42}N_2O_3Si$

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