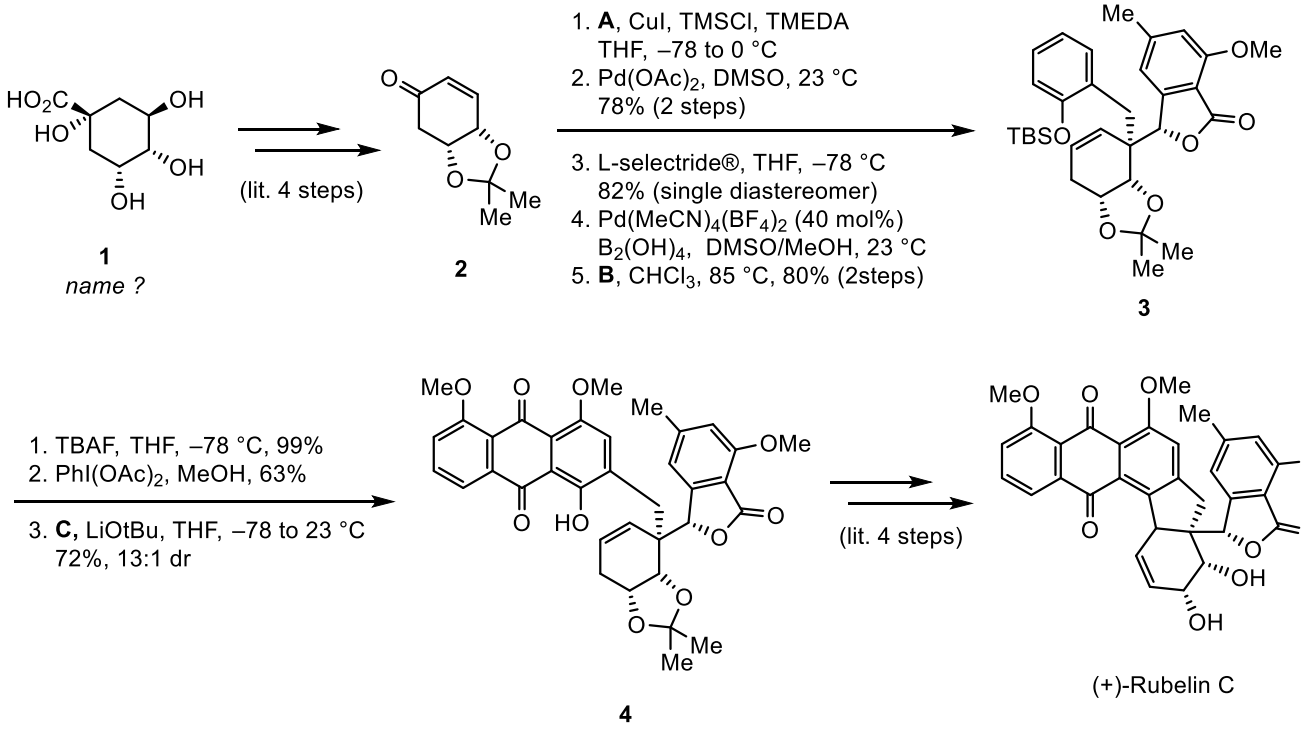

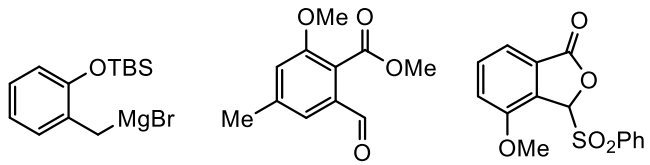

Q1. Propose a plausible synthetic route from **1** to **2.**
Q2. Explain molecular transformation from **2** to **3** and **4.**
(Ex. Propose a plausible synthetic route from **4** to rubelin C.)

J. A. Gartman, U. K. Tambar*
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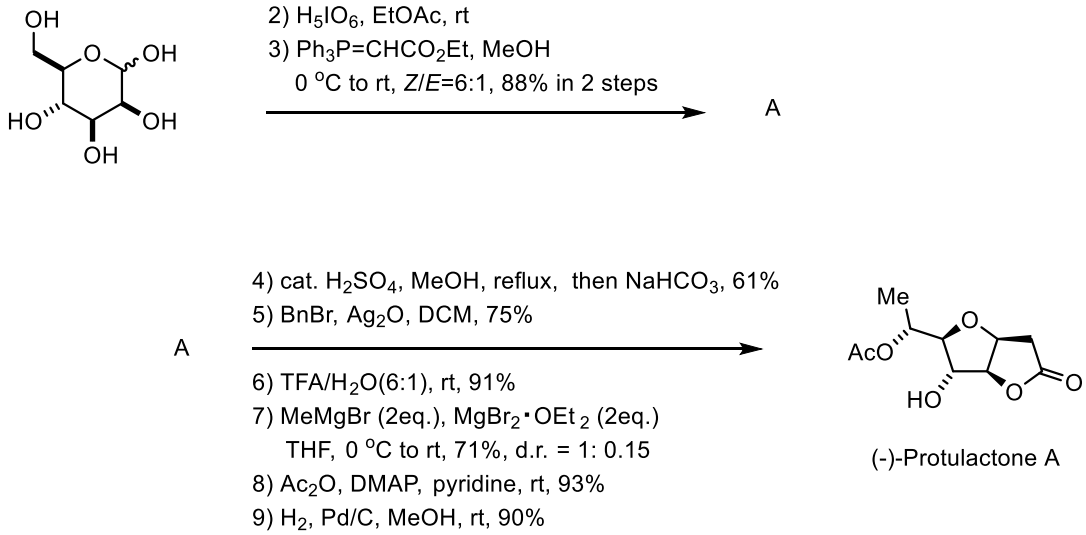

A: $C_{13}H_{21}O_6$

^{1}H NMR (400 MHz,Chloroform-d) δ 6.31 (dd, J = 11.7, 6.8 Hz, 1H), 5.96 (d, J = 11.7 Hz,1H), 5.41-5.39 (m, 1H), 5.03-4.99 (m, 1H), 4.94 (s, 1H), 4.58 (d,J = 5.8 Hz, 1H), 4.18 (q, J = 7.1 Hz, 2H), 3.32 (s, 3H), 1.44 (s, 3H),1.27-1.20 (m, 6H)

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