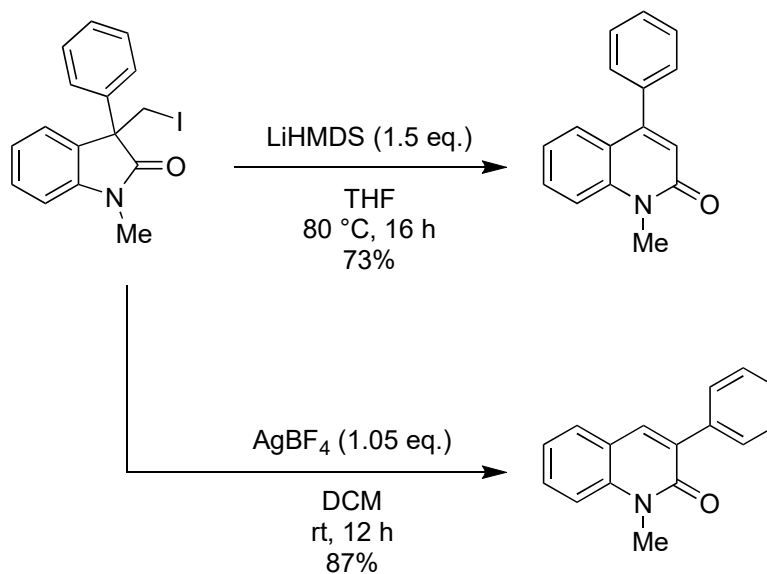
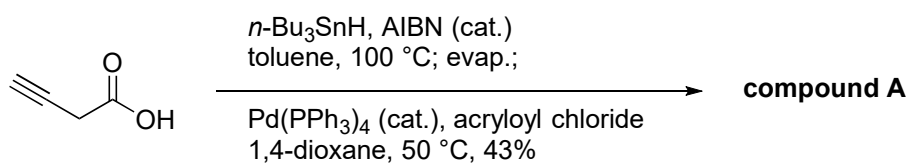




Bill Morandi, *et al.*
J. Am. Chem. Soc. **2024**, 146, 4301

Propose the structure of compound A and the mechanism of the reaction of but-3-ynoic acid to compound A.



Compound A

^1H NMR (400 MHz, CDCl_3) δ 7.26 (dd, $J = 9.4, 6.6$ Hz, 1H), 6.24 (dd, $J = 17.2, 10.8$ Hz, 1H), 6.19 (d, $J = 9.4$ Hz, 1H), 6.09 (d, $J = 17.2$ Hz, 1H), 6.04 (d, $J = 6.6$ Hz, 1H), 5.48 (d, $J = 10.8$ Hz, 1H).

^{13}C NMR (101 MHz, CDCl_3) δ 161.7, 159.1, 143.5, 128.2, 121.1, 115.4, 104.8.

HRMS (ESI) calculated for $\text{C}_7\text{H}_7\text{O}_2$ $[\text{M}+\text{H}]^+$: 123.0446, found 123.0447.