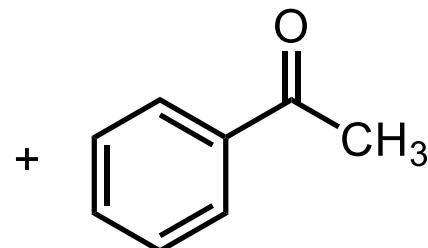
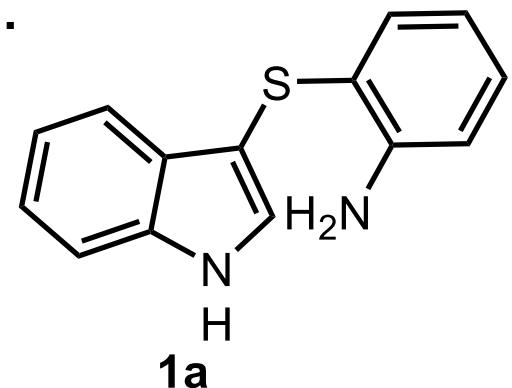
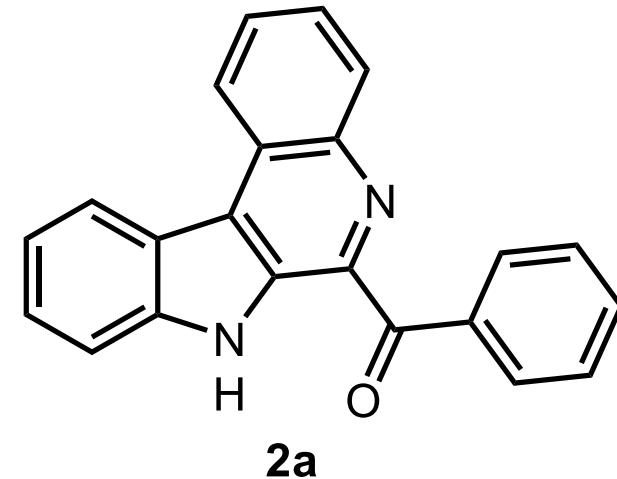


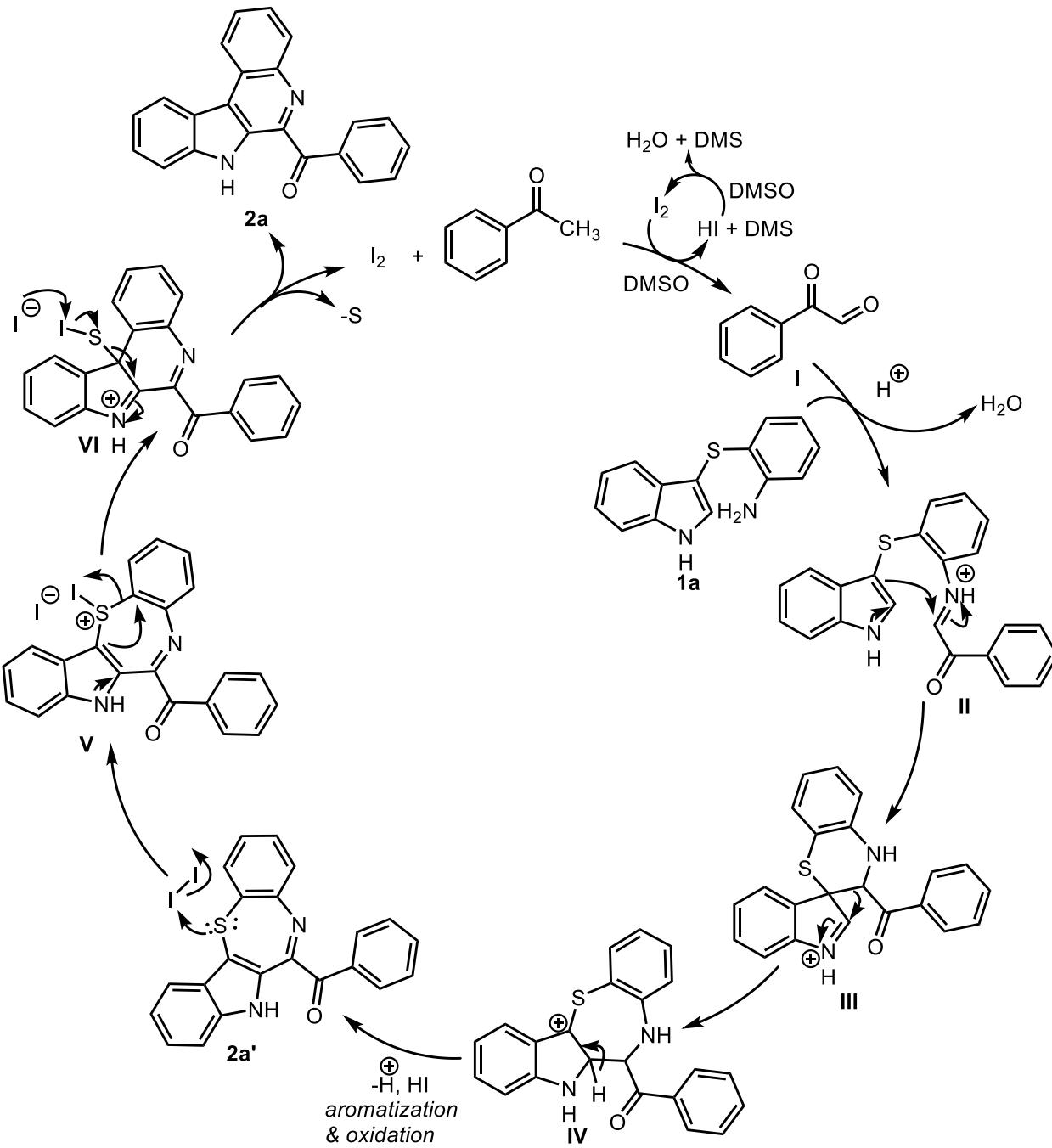
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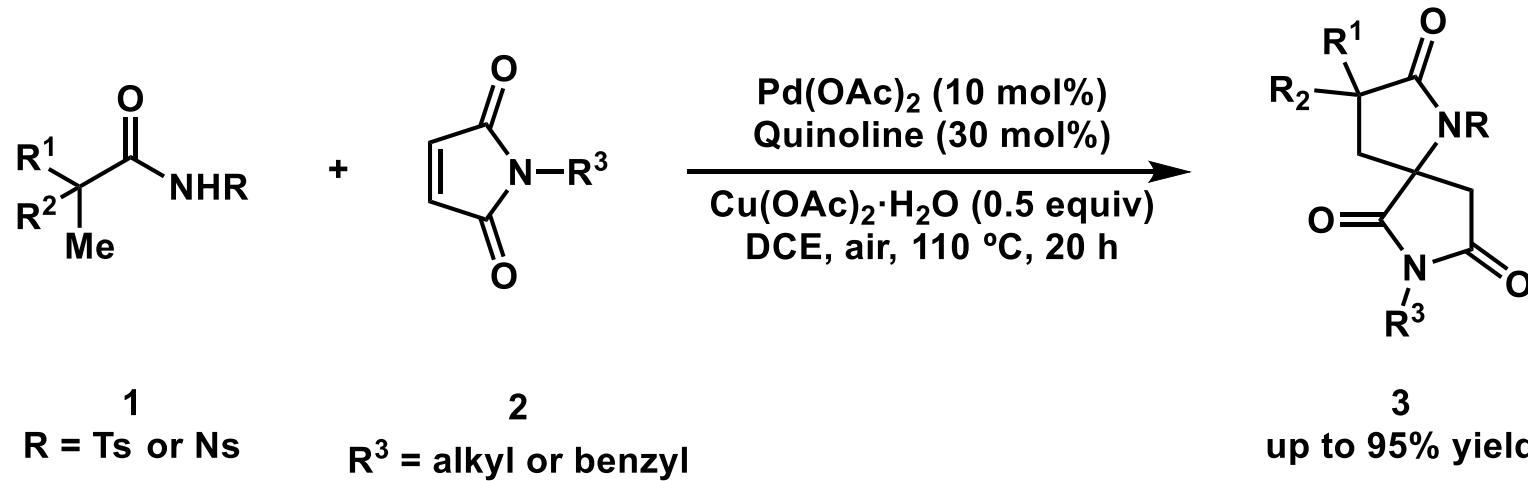
I₂ (20 mol%)
CF₃SO₃H (1.5 eq.)
DMSO, 110 °C
12 h, 86%



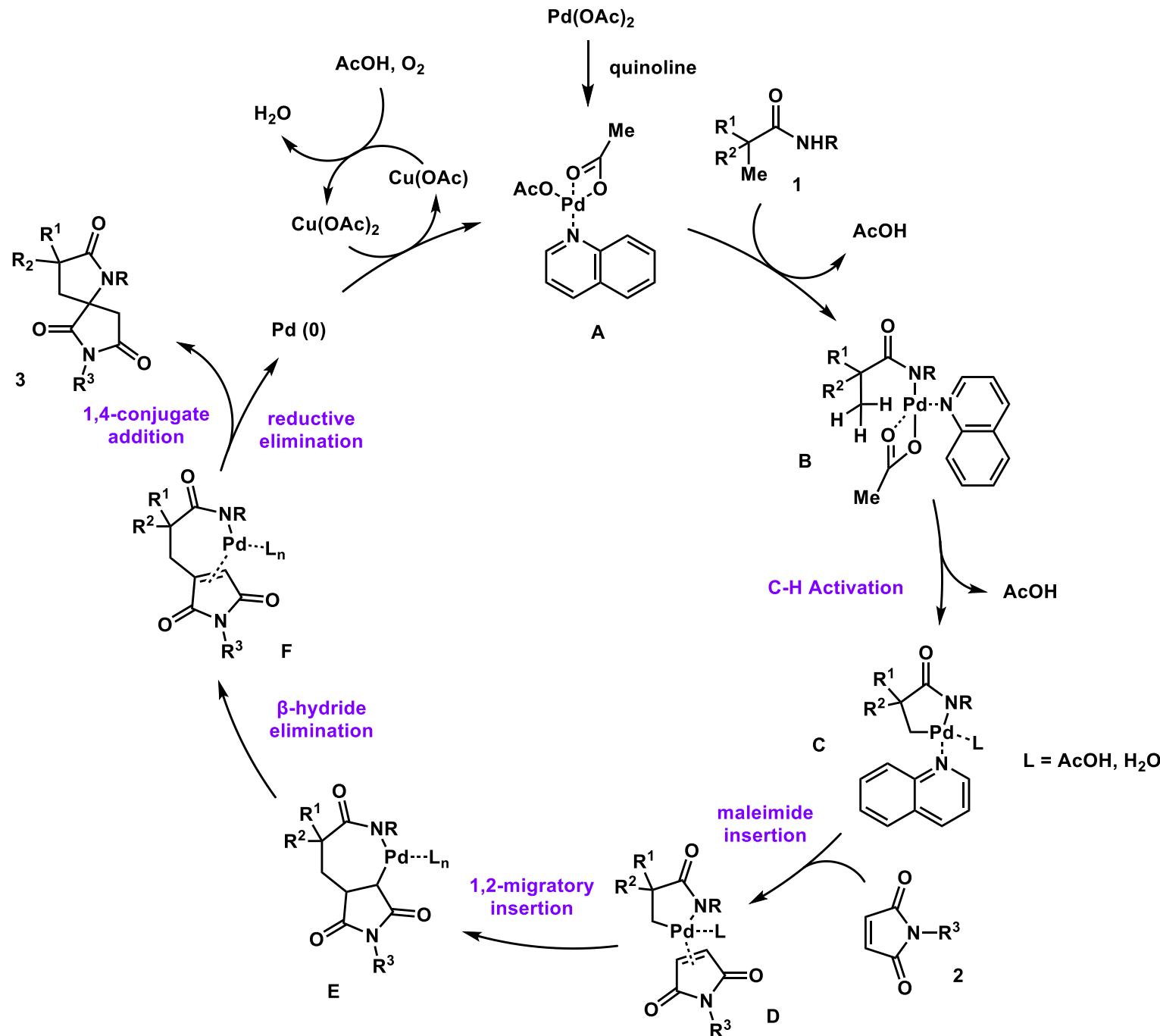
J. Org. Chem., 2023, 88, 12783.



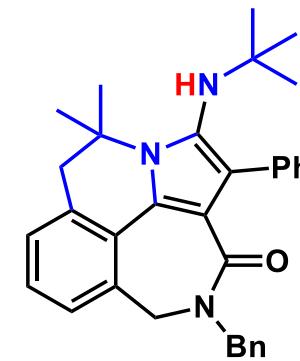
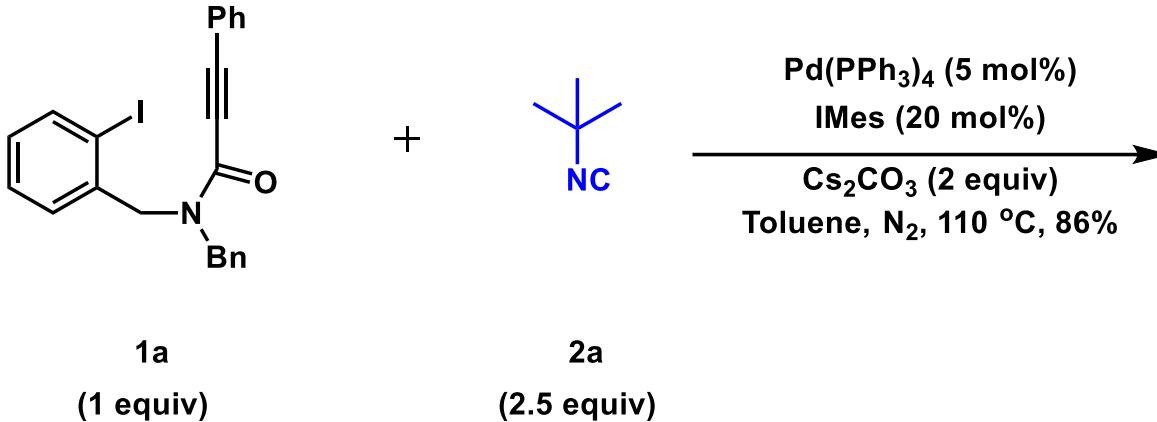
2.



Org. Lett., 2023, 25, 6305.



3.



3a

Org. Lett., 2023, 25, 6272.

