

Supporting Information

Palladium(II) Catalyzed Synthesis of Indenones through Cyclization of Benzenecarbaldehydes with internal Alkynes

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^1H and ^{13}C spectra of some Indenones

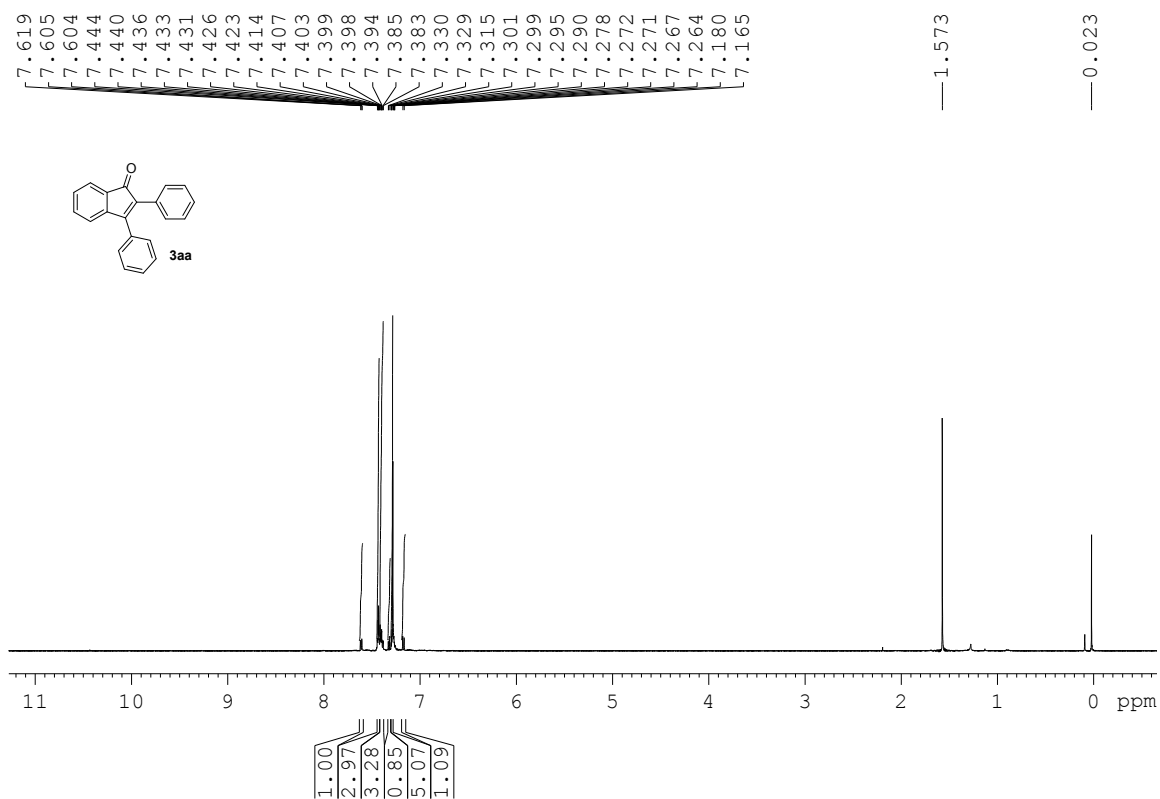


Figure S11. ^1H NMR spectrum of compound 3aa

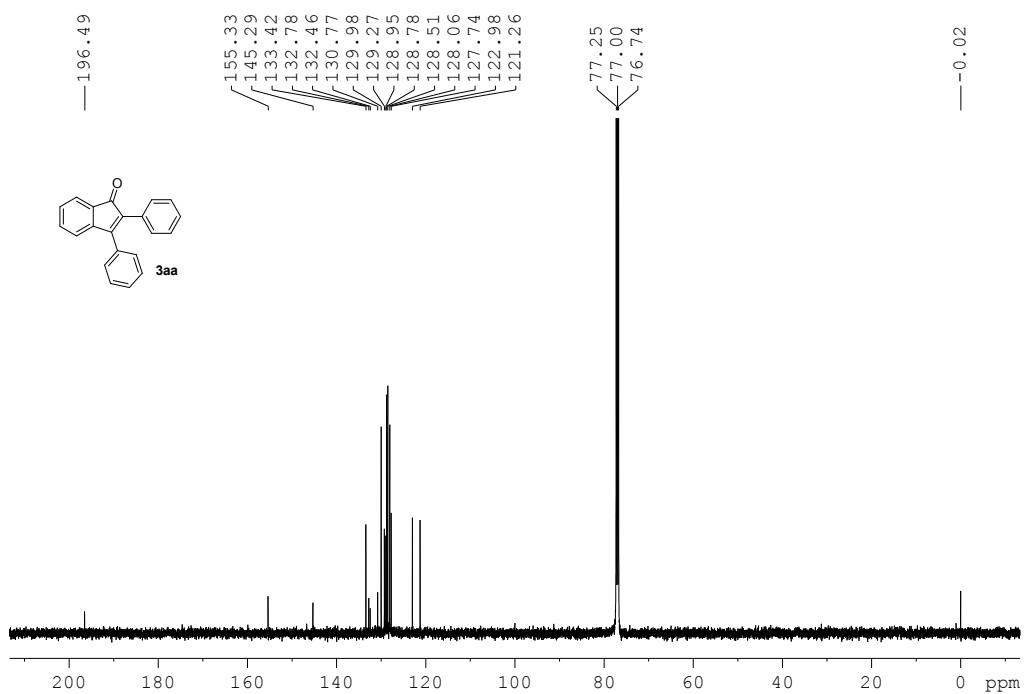


Figure S12. ^{13}C NMR spectrum of compound 3aa

(HRMS (ESI) Calcd. for C₂₁H₁₅O [M+H]: *m/z* 283.1124. Found: 283.1123)

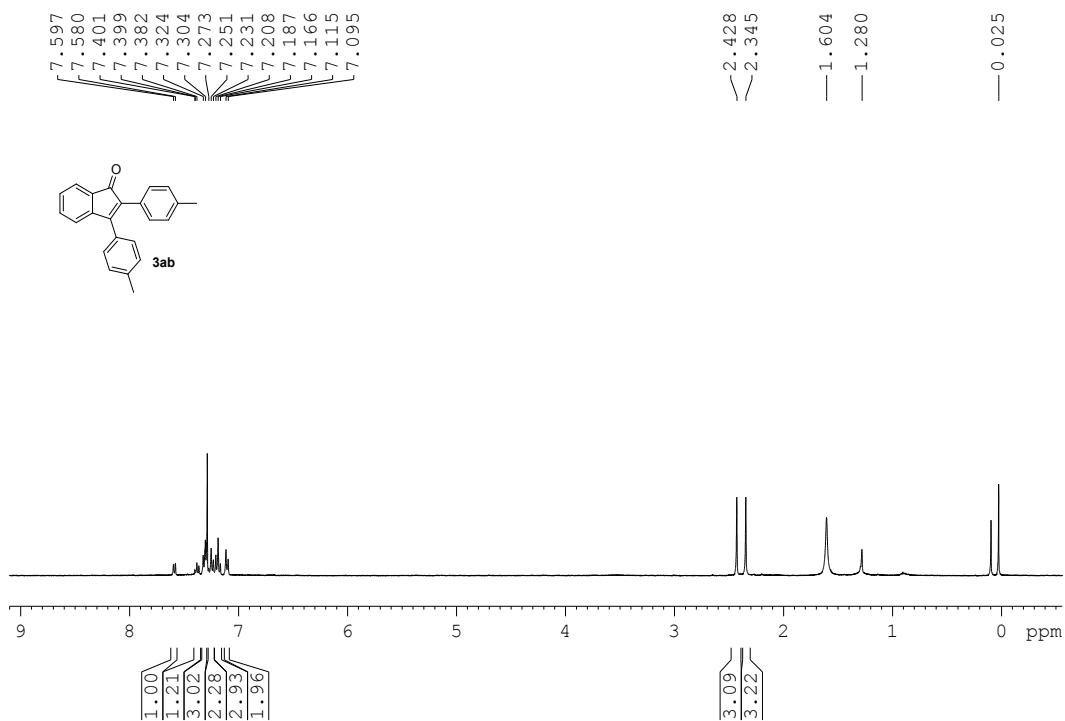


Figure S13. ¹H NMR spectrum of compound **3ab**

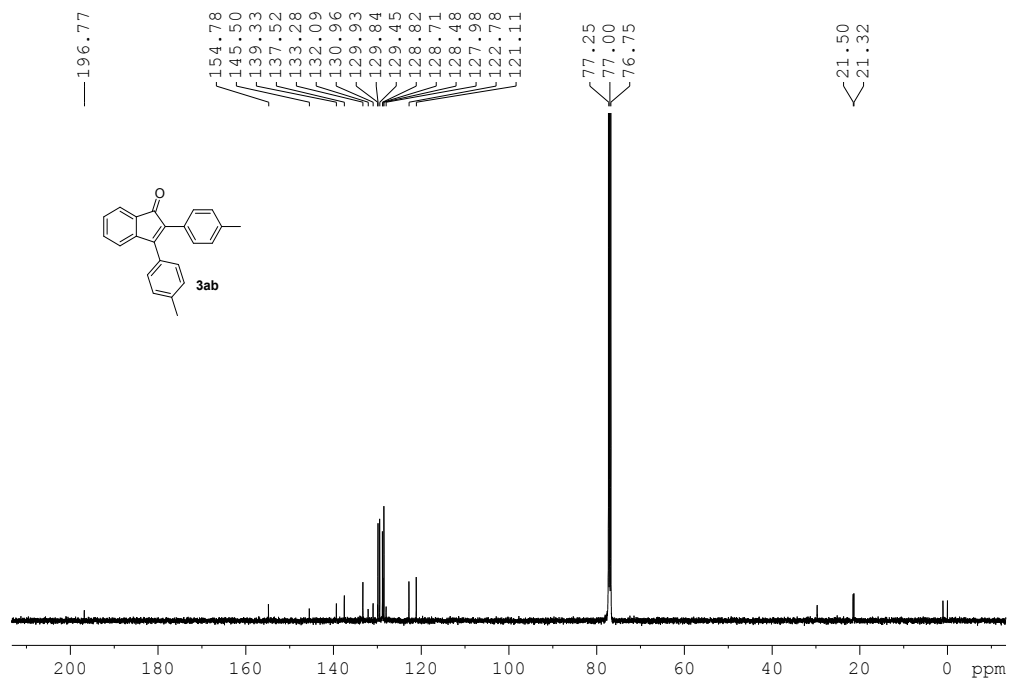


Figure S14. ¹³C NMR spectrum of compound **3ab**

(HRMS (ESI) Calcd. for C₂₃H₁₉O [M+H]: *m/z* 311.1436. Found: 311.136)

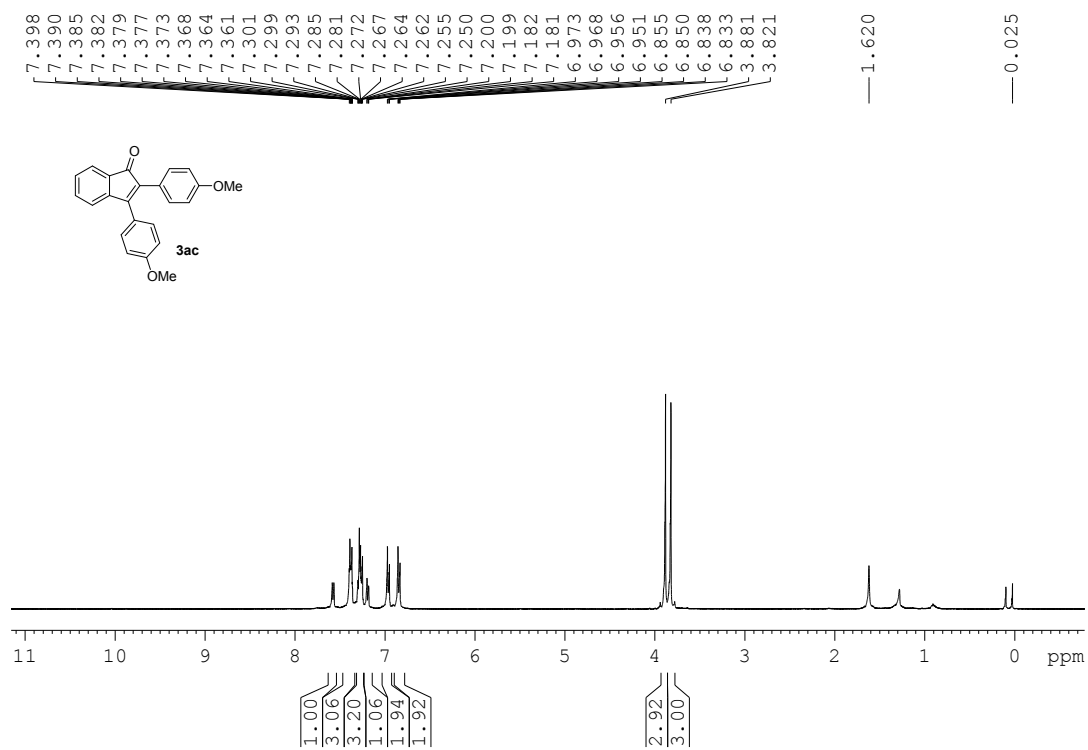


Figure S15. ¹H NMR spectrum of compound **3ac**

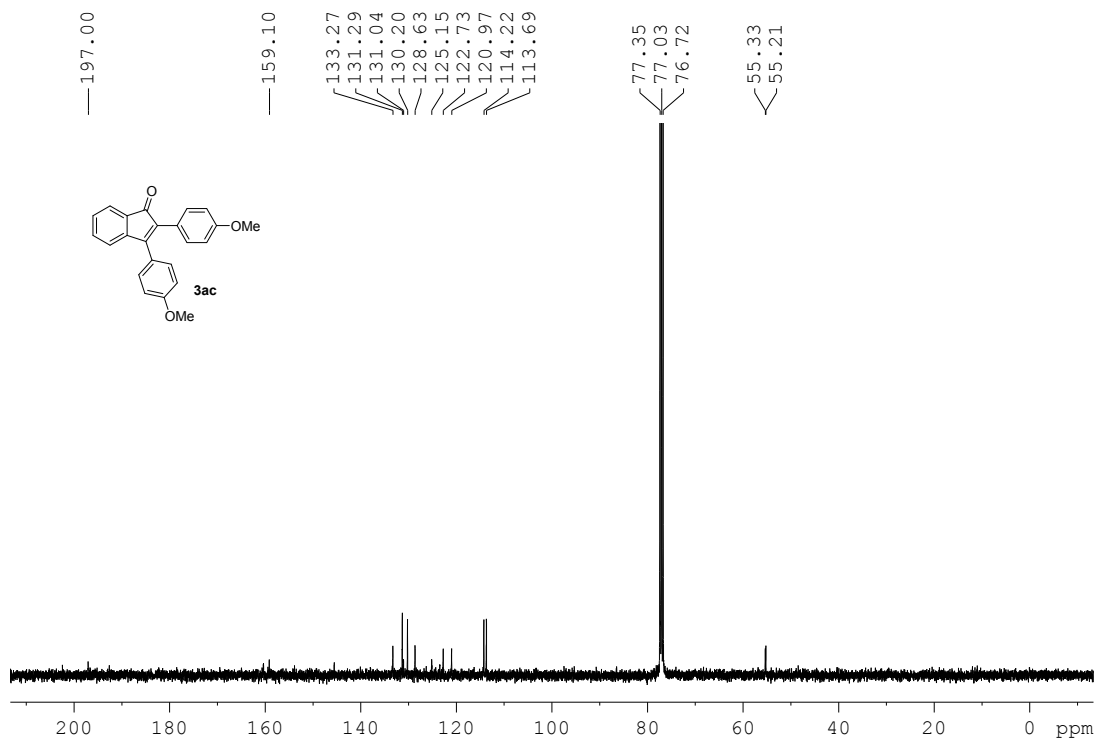


Figure S16. ¹³C NMR spectrum of compound **3ac**

(HRMS (ESI) Calcd. for C₂₃H₁₉O₃ [M+H]: *m/z* 343.1335. Found: 343.1335)

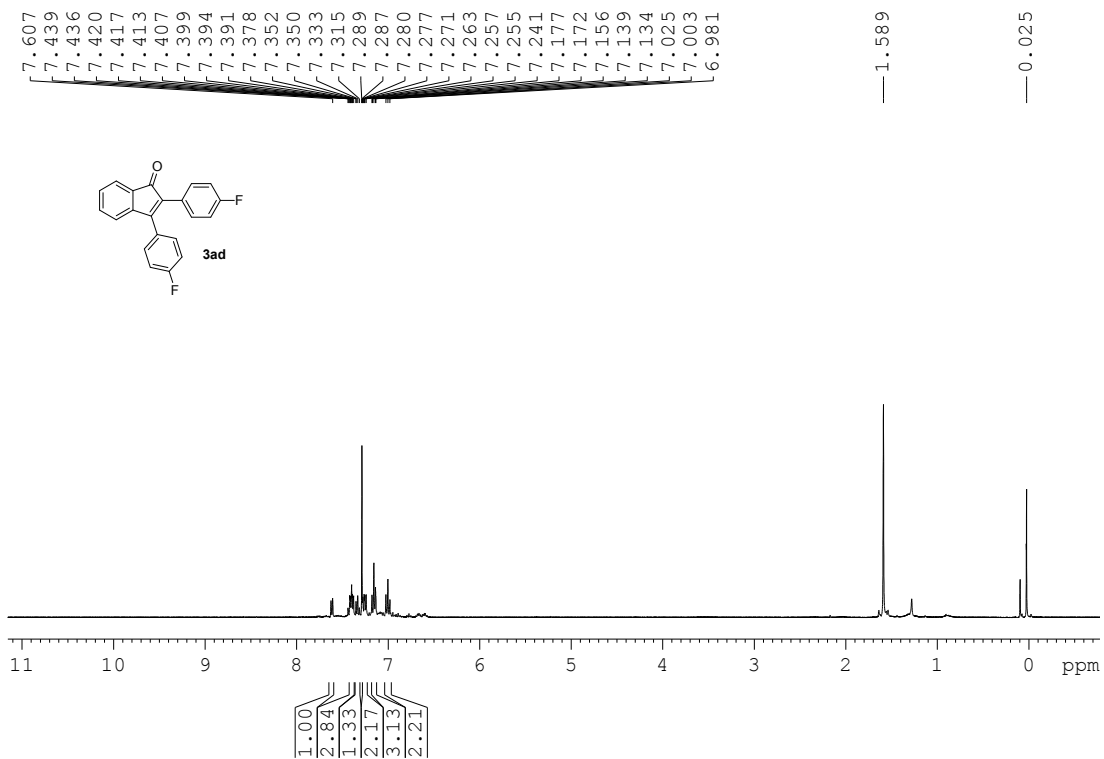


Figure S17. ¹H NMR spectrum of compound **3ad**

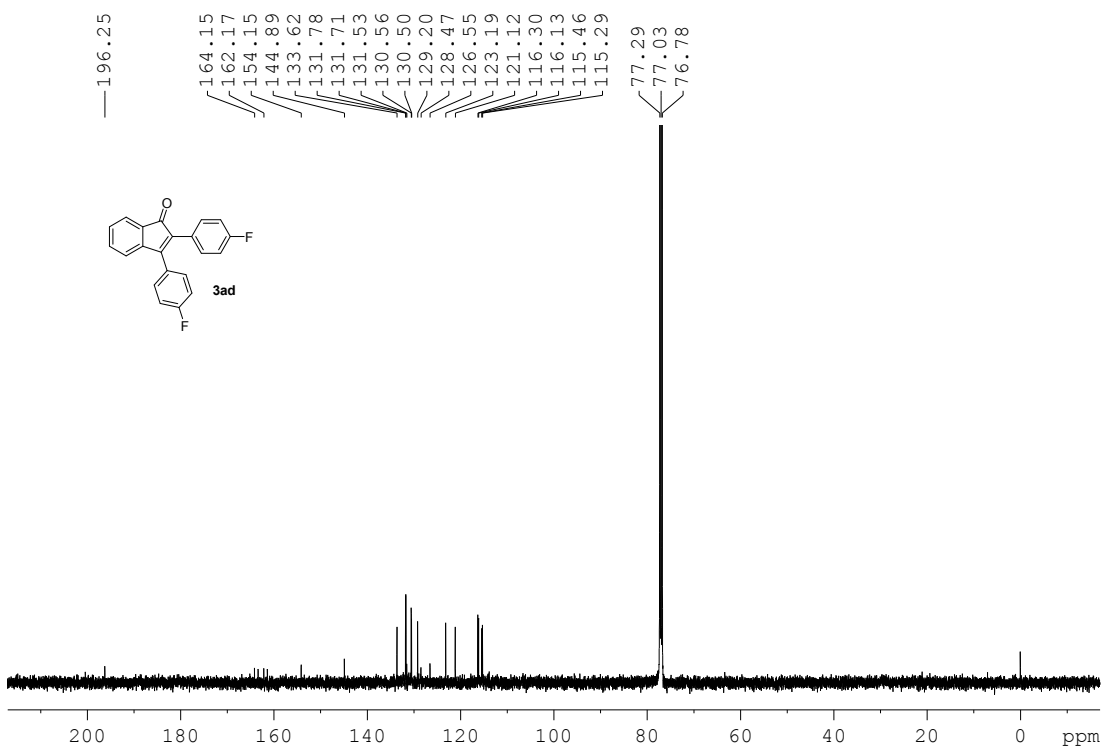


Figure S18. ¹³C NMR spectrum of compound **3ad**

(HRMS (ESI) Calcd. for C₂₁H₁₂F₂O₂ [M+H]: *m/z* 319.0935. Found: 319.0959)

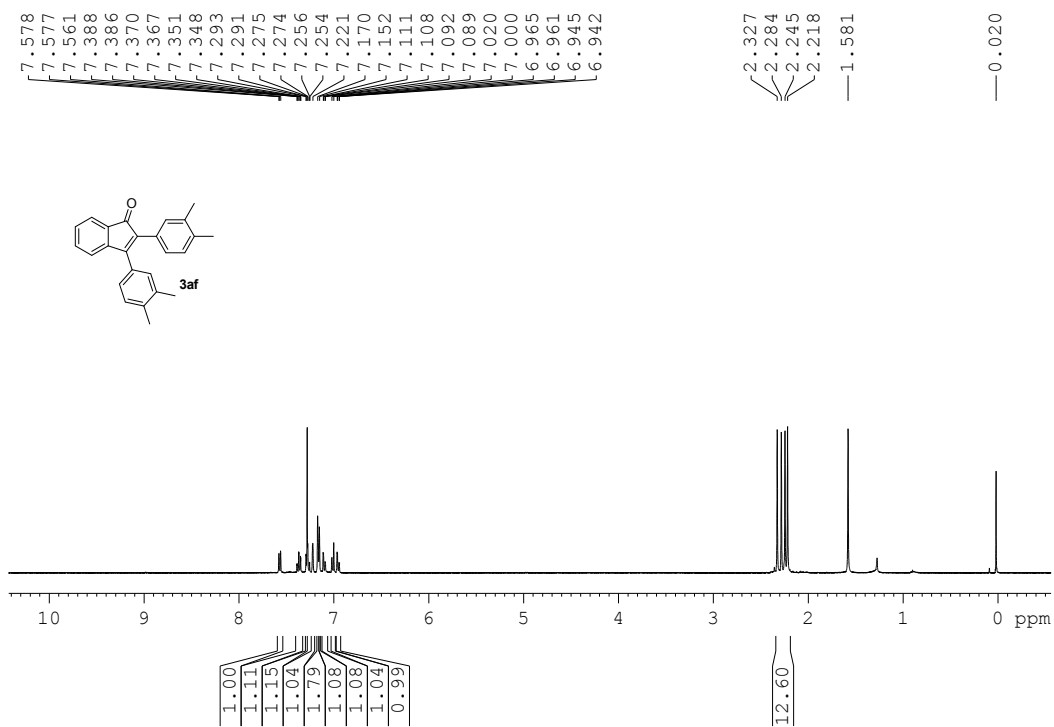


Figure S19. ¹H NMR spectrum of compound 3af

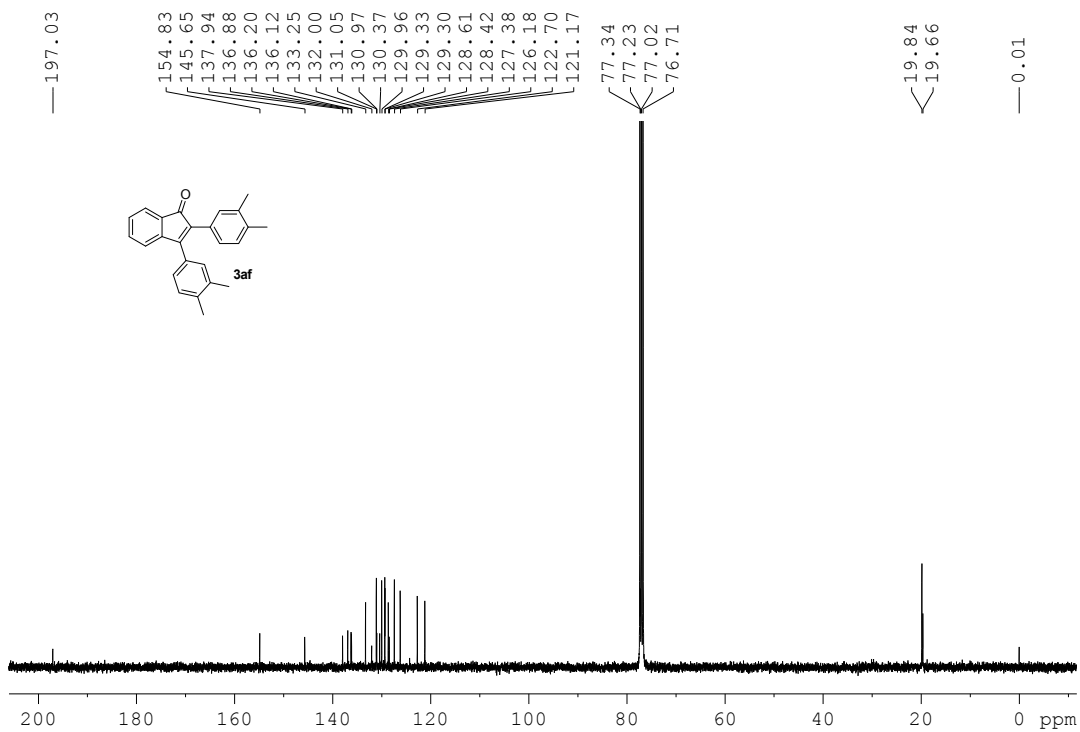


Figure S20. ¹³C NMR spectrum of compound 3af

(HRMS (ESI) Calcd. for C₂₅H₂₂ONa [M+Na]: *m/z* 361.1568. Found: 361.1570)

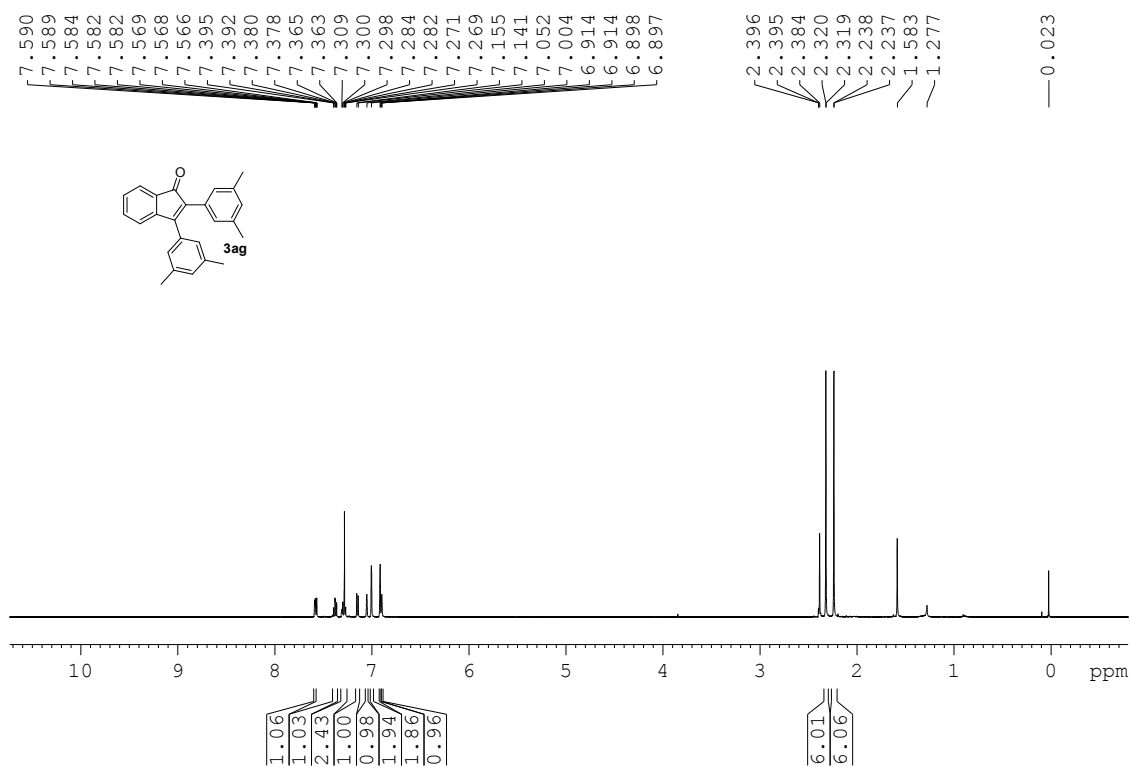


Figure S21. ¹H NMR spectrum of compound **3ag**

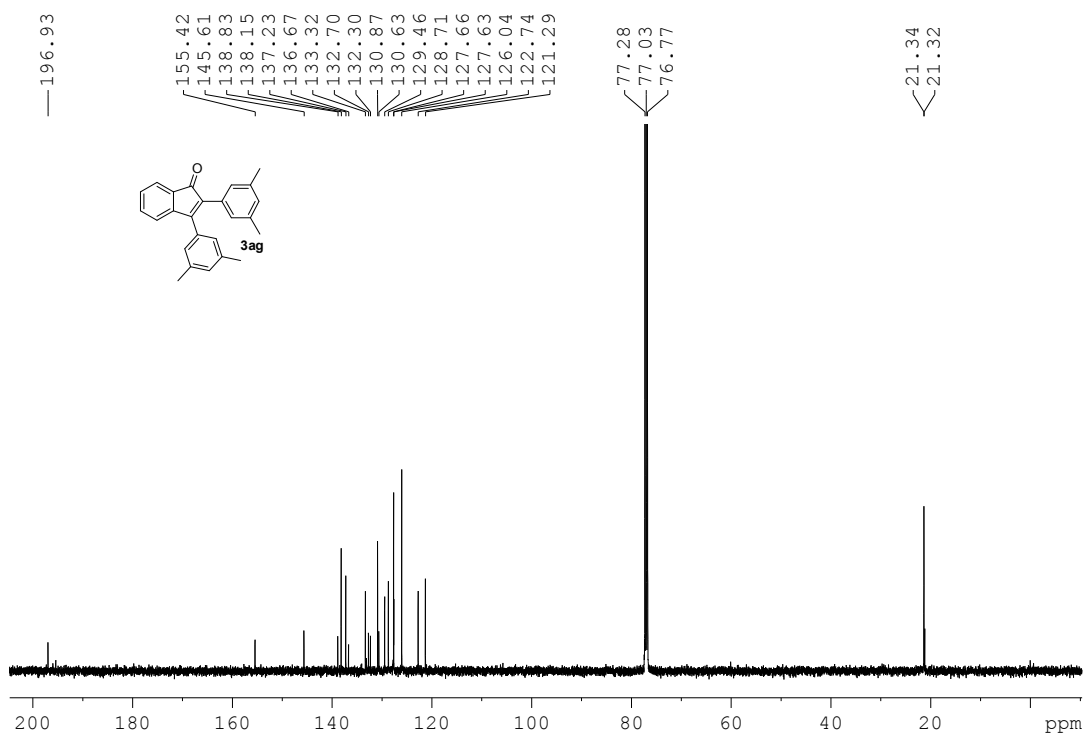


Figure S22. ¹³C NMR spectrum of compound **3ag**

(HRMS (ESI) Calcd. for C₂₅H₂₂ONa [M+Na]: *m/z* 361.1568. Found: 361.1567)

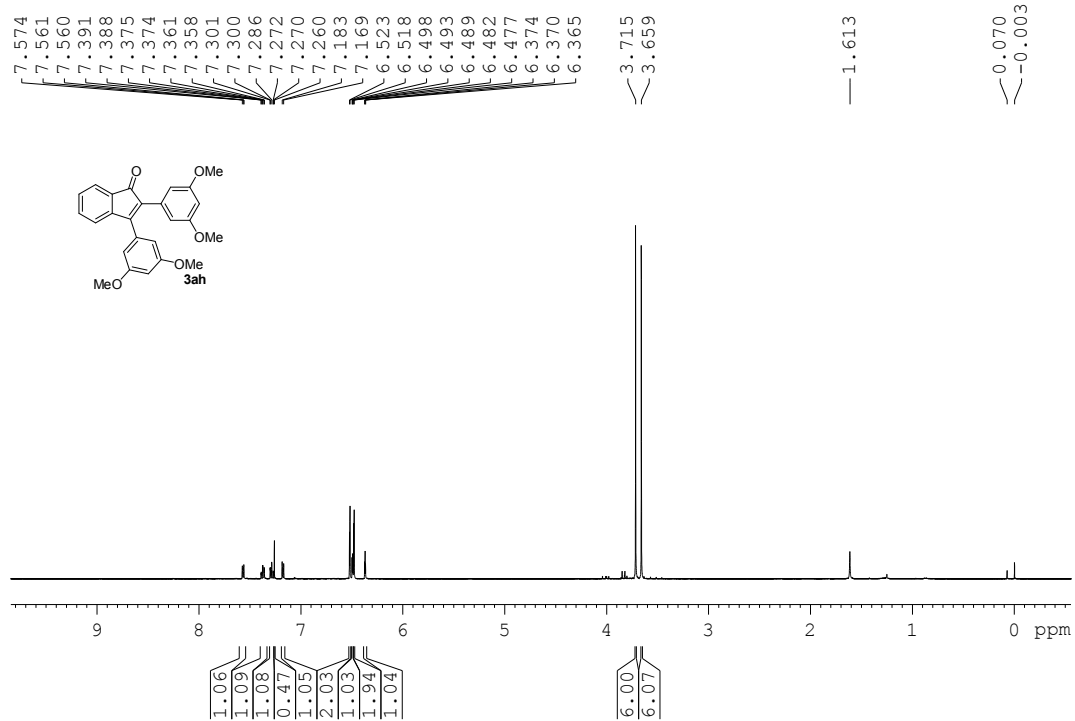


Figure S23. ¹H NMR spectrum of compound **3ah**

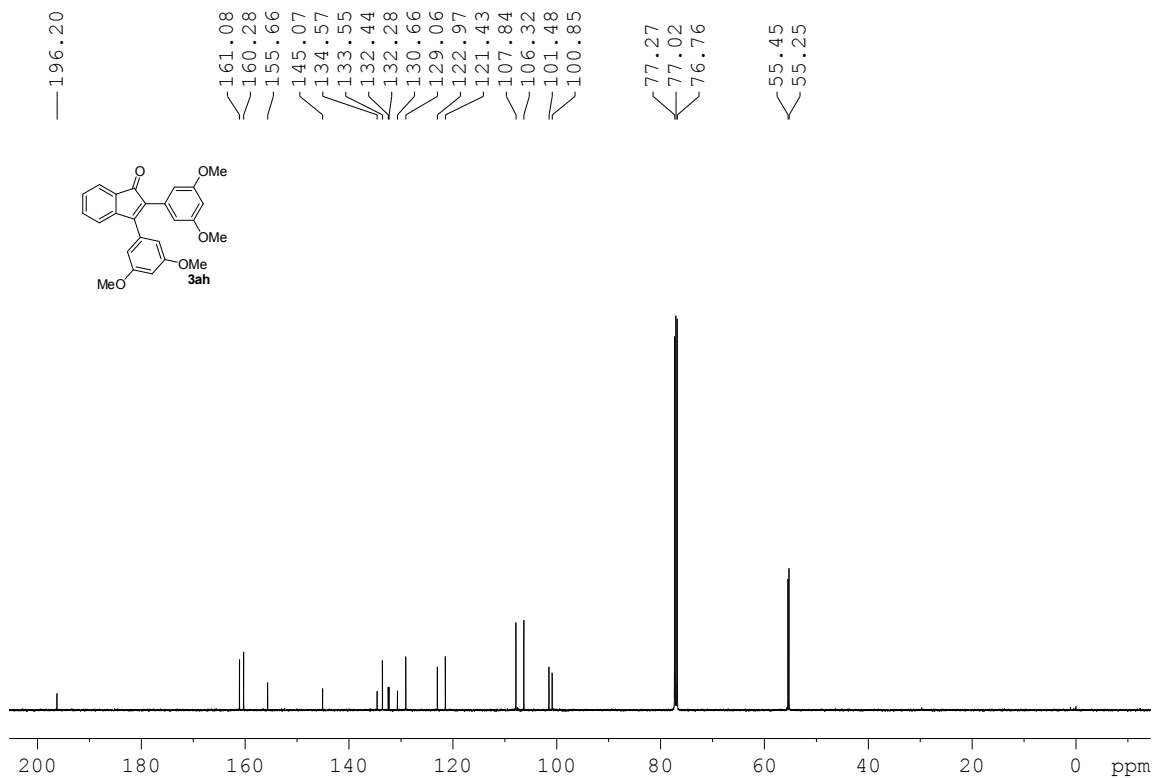


Figure S24. ¹³C NMR spectrum of compound **3ah**

(HRMS (ESI) Calcd. for C₂₅H₂₂O₅Na [M+Na]: *m/z* 425.1365. Found: 425.1362)

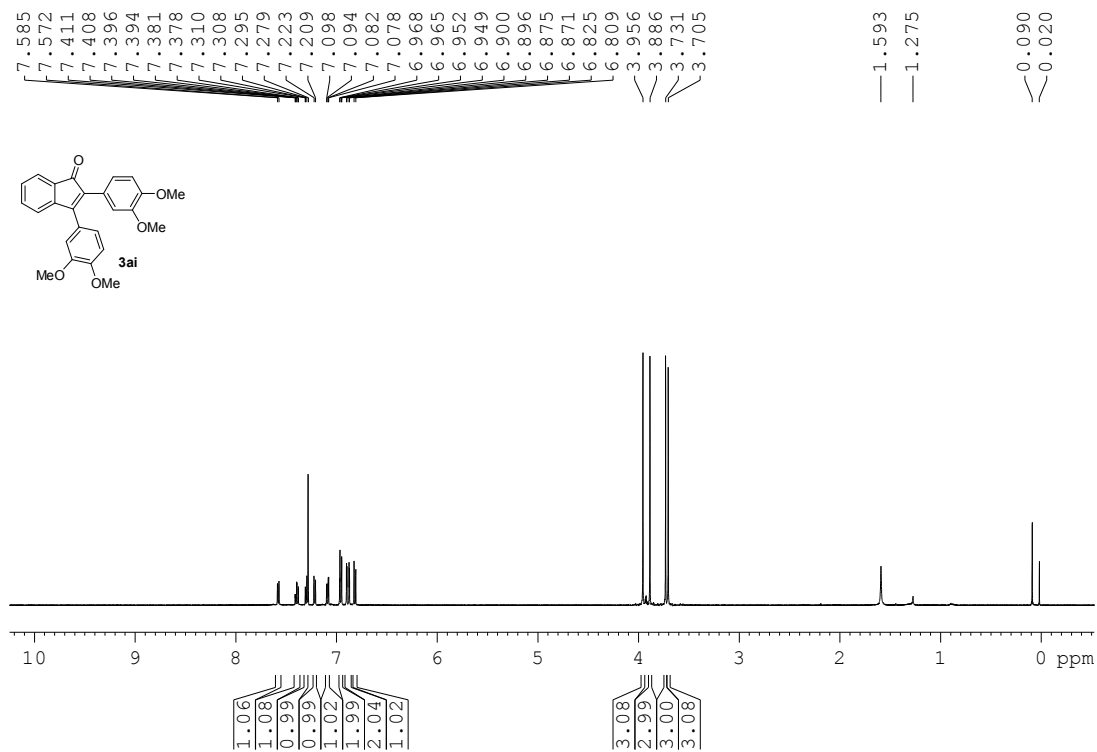


Figure S25. ¹H NMR spectrum of compound **3ai**

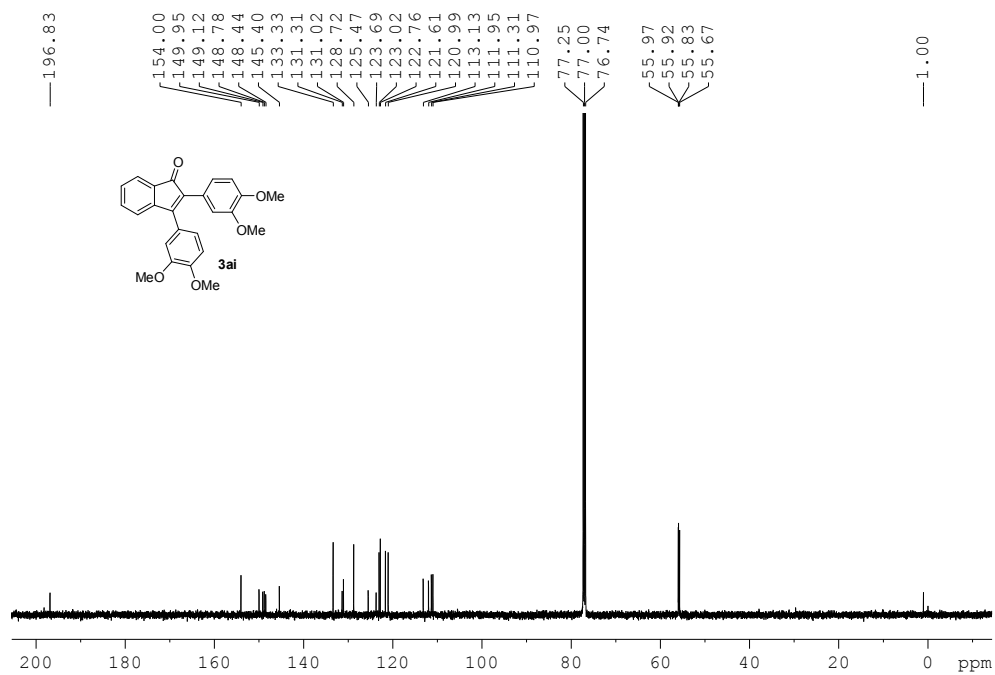


Figure S26. ¹³C NMR spectrum of compound **3ai**

(HRMS (ESI) Calcd. for $C_{25}H_{22}O_5Na$ $[M+Na]$: m/z 425.1365. Found: 425.1363)

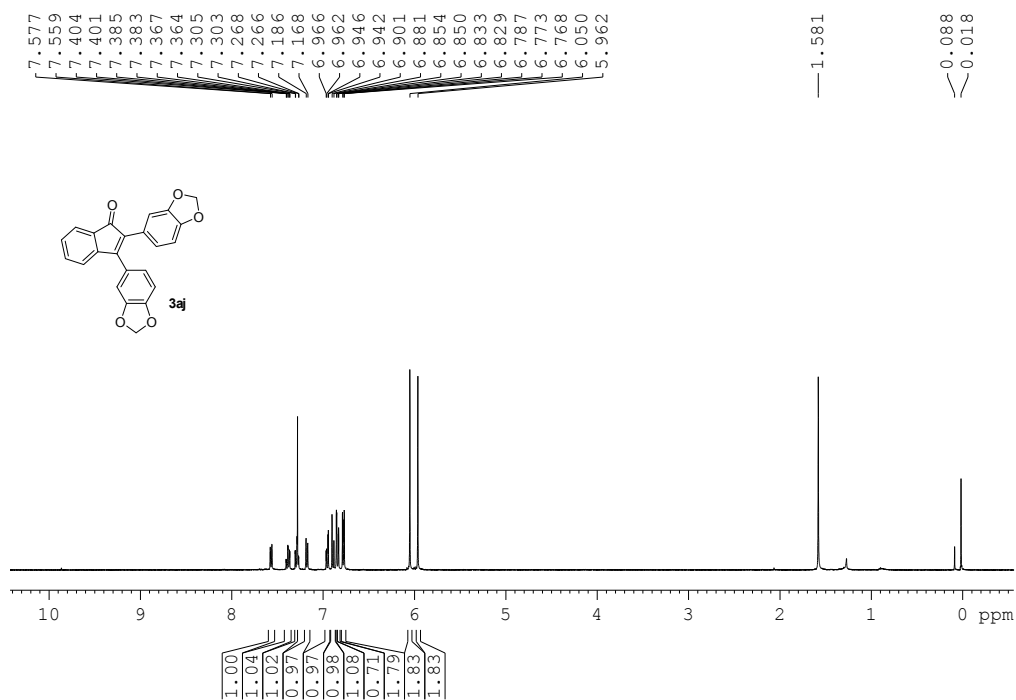


Figure S27. 1H NMR spectrum of compound **3aj**

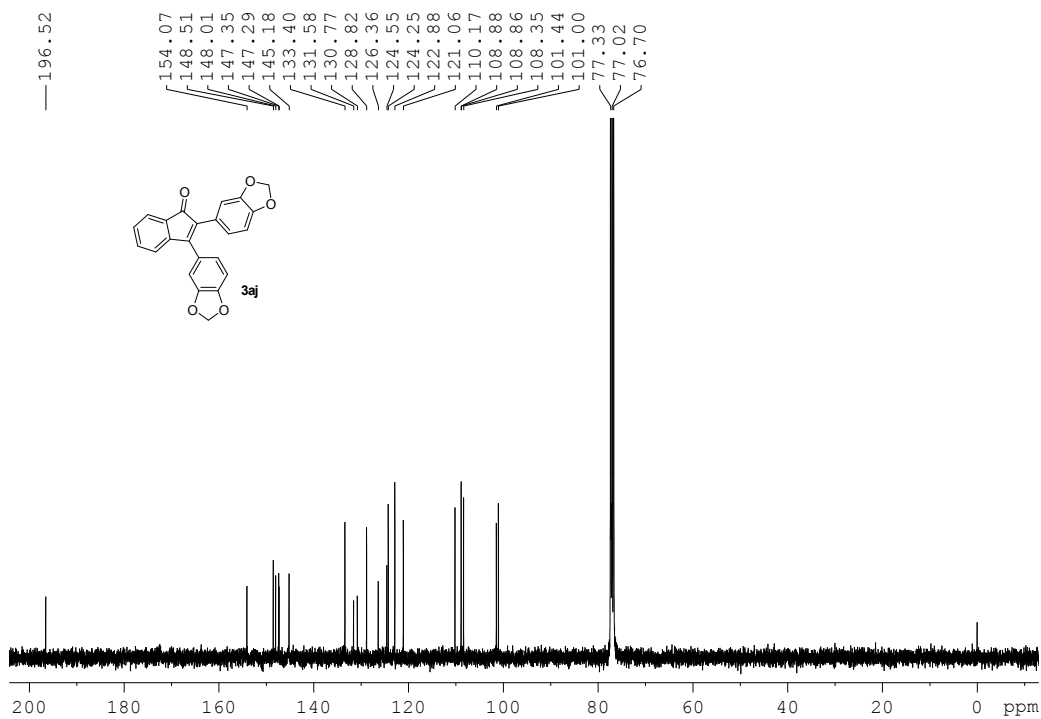


Figure S28. ^{13}C NMR spectrum of compound **3aj**

(HRMS (ESI) Calcd. for $C_{23}H_{15}O_5$ $[M+H]$: m/z 371.0919. Found: 371.0917)

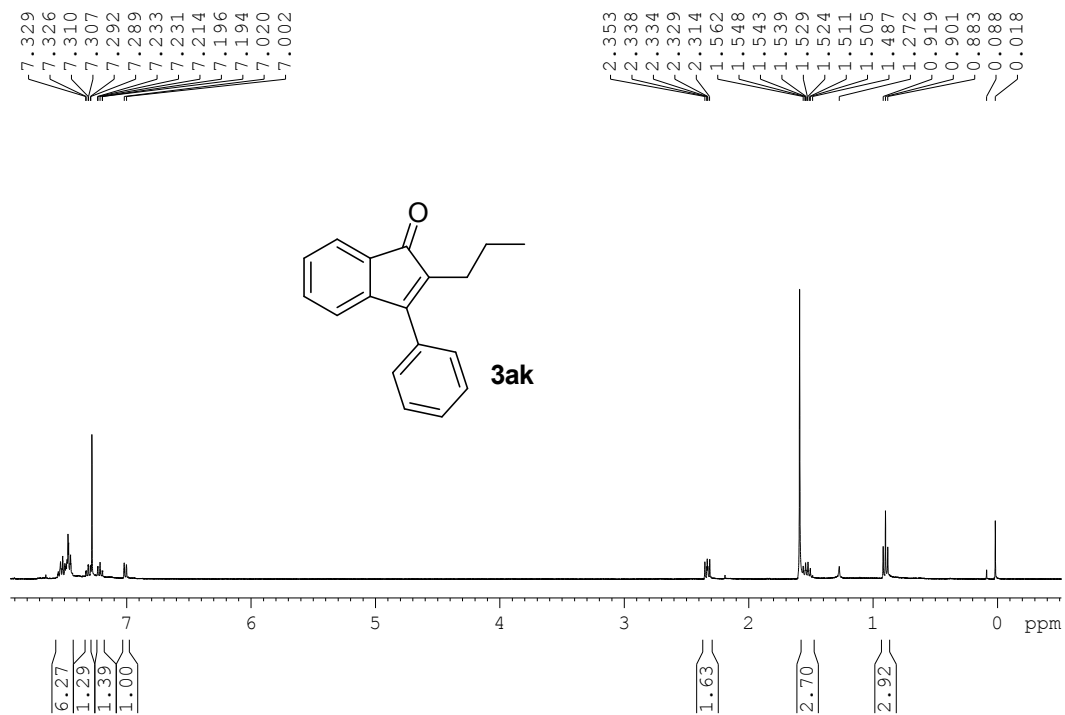


Figure S29. ¹H NMR spectrum of compound **3ak**

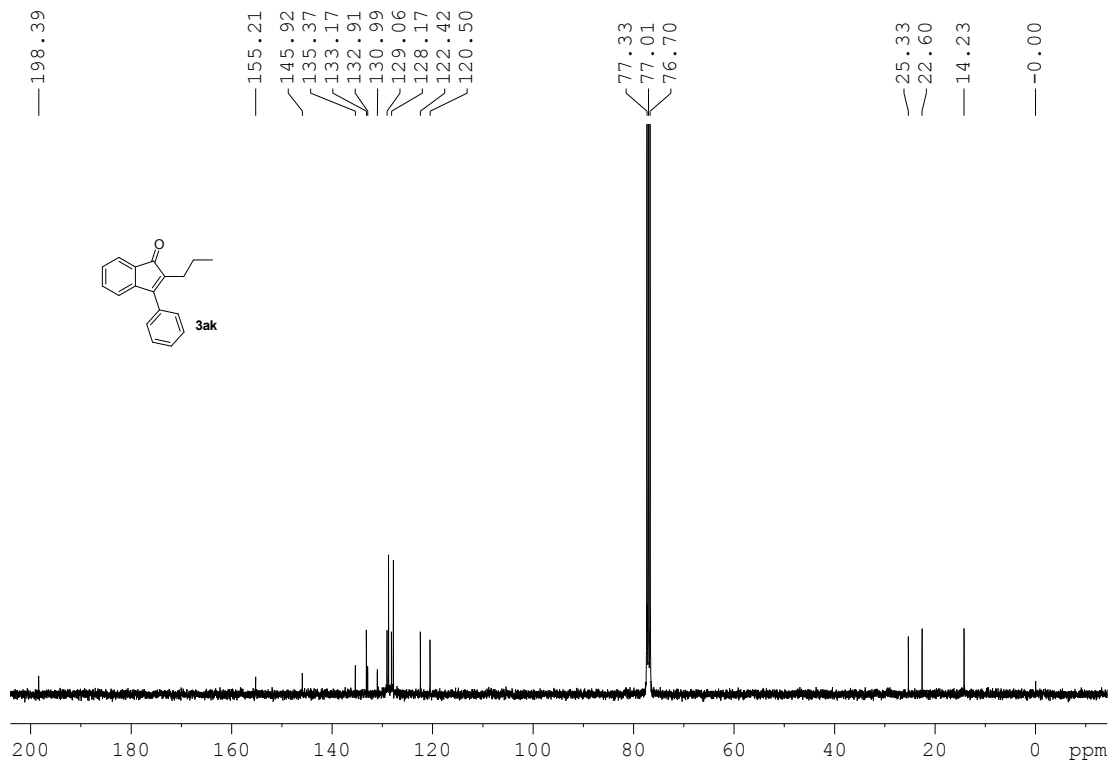


Figure S30. ¹³C NMR spectrum of compound **3ak**

(HRMS (ESI) Calcd. for C₁₇H₁₅O [M+H]: *m/z* 235.1124. Found: 235.1100)