Supporting Information

MICROWAVE-ASSISTED EFFICIENT SYNTHESIS OF 4-SUBSTITUTED AMINO-2-METHYLQUINOLINES CATALYZED BY \( p \)-TOLUENESULFONIC ACID

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Figure S1. $^1$H-NMR Spectrum of compound 3a

Figure S2. $^{13}$C-NMR Spectrum of compound 3a
Figure S3. HRMS Spectrum of compound 3a

Figure S4. $^1$H-NMR Spectrum of compound 3b
Figure S5. $^{13}$C-NMR Spectrum of compound 3b

Figure S6. HRMS Spectrum of compound 3b
**Figure S7.** $^1$H-NMR Spectrum of compound 3c

**Figure S8.** $^{13}$C-NMR Spectrum of compound 3c
Figure S9. HRMS Spectrum of compound 3c

Figure S10. $^1$H-NMR Spectrum of compound 3d
Figure S11. $^{13}$C-NMR Spectrum of compound 3d

Figure S12. HRMS Spectrum of compound 3d

<table>
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<th>Delta mmu</th>
<th>Calculated</th>
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<tbody>
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Figure S13. $^1$H-NMR Spectrum of compound 3e

Figure S14. $^{13}$C-NMR Spectrum of compound 3e
Figure S15. HRMS Spectrum of compound 3e

Figure S16. $^1$H-NMR Spectrum of compound 3f
Figure S17. $^{13}$C-NMR Spectrum of compound 3f

Figure S18. HRMS Spectrum of compound 3f
Figure S19. $^1$H-NMR Spectrum of compound 3g

Figure S20. $^{13}$C-NMR Spectrum of compound 3g
Figure S21. HRMS Spectrum of compound 3g

[Image of HRMS Spectrum]

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Calculated 244.1808  Found 244.1799

Figure S22. $^1$H-NMR Spectrum of compound 3h

[Image of $^1$H-NMR Spectrum]
Figure S23. $^{13}$C-NMR Spectrum of compound 3h

Figure S24. HRMS Spectrum of compound 3h

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Calculated 230.1652 Found 230.1641
Figure S25. $^1$H-NMR Spectrum of compound 3i

Figure S26. $^{13}$C-NMR Spectrum of compound 3i
Figure S27. HRMS Spectrum of compound 3i

Figure S28. $^1$H-NMR Spectrum of compound 3j
Figure S29. $^{13}$C-NMR Spectrum of compound 3j

Figure S30. HRMS Spectrum of compound 3j
Figure S31. $^1$H-NMR Spectrum of compound 3k

Figure S32. $^{13}$C-NMR Spectrum of compound 3k
Figure S33. HRMS Spectrum of compound 3k

Figure S34. $^1$H-NMR Spectrum of compound 3l
Figure S35. $^{13}$C-NMR Spectrum of compound 3l

Figure S36. HRMS Spectrum of compound 3l
**Figure S37.** $^1$H-NMR Spectrum of compound 3m

![$^1$H-NMR Spectrum of compound 3m](image)

**Figure S38.** $^{13}$C-NMR Spectrum of compound 3m

![$^{13}$C-NMR Spectrum of compound 3m](image)
Figure S39. HRMS Spectrum of compound 3m

Figure S40. $^1$H-NMR Spectrum of compound 3n
Figure S41. $^{13}$C-NMR Spectrum of compound 3n

Figure S42. HRMS Spectrum of compound 3n
**Figure S43.** $^1$H-NMR Spectrum of compound 3o

![Figure S43. $^1$H-NMR Spectrum of compound 3o](image)

**Figure S44.** $^{13}$C-NMR Spectrum of compound 3o

![Figure S44. $^{13}$C-NMR Spectrum of compound 3o](image)
Figure S45. HRMS Spectrum of compound 3o