Microwave-assisted synthesis of novel benzodifuran-based bis(N-(het)arylthiazol-2-amine) derivatives and their antibacterial and antimycobacterial activities

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SUPPLEMENTARY INFORMATION

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Figure S1. IR spectrum of compound 3.

Figure S2. $^1$H NMR spectrum of compound 3 in CDCl$_3$. 
**Figure S3.** $^{13}$C NMR spectrum of compound 3 in CDCl$_3$.

**Figure S4.** Mass spectrum of compound 3.
Figure S5. IR spectrum of compound 4.

Figure S6. $^1$H NMR spectrum of compound 4 in CDCl$_3$. 

S4
Figure S7. $^{13}$C NMR spectrum of compound 4 in CDCl$_3$.

Figure S8. Mass spectrum of compound 4.
Figure S9. IR spectrum of compound 5.

Figure S10. $^1$H NMR spectrum of compound 5 in DMSO-$d_6$. 
Figure S11. $^{13}$C NMR spectrum of compound 5 in DMSO-$d_6$.

Figure S12. Mass spectrum of compound 5.
Figure S13. IR spectrum of compound 6.

Figure S14. $^1$H NMR spectrum of compound 6 in DMSO-$d_6$. 
Figure S15. $^{13}$C NMR spectrum of compound 6 in DMSO-$d_6$.

Figure S16. Mass spectrum of compound 6.
Figure S17. IR spectrum of compound 8a.

Figure S18. $^1$H NMR spectrum of compound 8a in DMSO-$d_6$. 
Figure S19. $^{13}$C NMR spectrum of compound 8a in DMSO-$d_6$.

Figure S20. Mass spectrum of compound 8a.
Figure S21. IR spectrum of compound 8b.

Figure S22. $^1$H NMR spectrum of compound 8b in DMSO-$d_6$. 
Figure S23. $^{13}$C NMR spectrum of compound 8b in DMSO-$d_6$.

Figure S24. Mass spectrum of compound 8b.
Figure S25. IR spectrum of compound 8c.

Figure S26. $^1$H NMR spectrum of compound 8c in DMSO-$d_6$. 
Figure S27. $^{13}$C NMR spectrum of compound 8c in DMSO-$d_6$.

Figure S28. Mass spectrum of compound 8c.
Figure S29. IR spectrum of compound 8d.

Figure S30. $^1$H NMR spectrum of compound 8d in DMSO-$d_6$. 
Figure S31. $^{13}$C NMR spectrum of compound 8d in DMSO-$d_6$.

Figure S32. Mass spectrum of compound 8d.
Figure S33. IR spectrum of compound 8e.

Figure S34. $^1$H NMR spectrum of compound 8e in DMSO-$d_6$. 
Figure S35. {}^{13}\text{C} \text{NMR spectrum of compound 8e in DMSO-}d_6$. 

Figure S36. Mass spectrum of compound 8e.
Figure S37. IR spectrum of compound 8f.

Figure S38. $^1$H NMR spectrum of compound 8f in DMSO-$d_6$. 
Figure S39. $^{13}$C NMR spectrum of compound 8f in DMSO-$d_6$.

Figure S40. Mass spectrum of compound 8f.
Figure S41. IR spectrum of compound 8g.

Figure S42. $^1$H NMR spectrum of compound 8g in DMSO-$d_6$. 
Figure S43. $^{13}$C NMR spectrum of compound 8g in DMSO-$d_6$.

Figure S44. Mass spectrum of compound 8g.
Figure S45. IR spectrum of compound 8h.

Figure S46. $^1$H NMR spectrum of compound 8h in DMSO-$d_6$. 
Figure S47. $^{13}$C NMR spectrum of compound 8h in DMSO-$d_6$.

Figure S48. Mass spectrum of compound 8h.