Supplementary Materials:

Figure S1. The ESI-MS spectrum of compound 3a.

Figure S2. The ¹H-NMR spectrum of compound 3a.
Figure S3. The ESI-MS spectrum of compound 3b.

Figure S4. The $^1$H-NMR spectrum of compound 3b.
Figure S5. The ESI-MS spectrum of compound 4a.

Figure S6. The $^1$H-NMR spectrum of compound 4a.
Figure S7. The ESI-MS spectrum of compound 4b.

Figure S8. The $^1$H-NMR spectrum of compound 4b.
Figure S9. The ESI-MS spectrum of compound 7a.

Figure S10. The 1H-NMR spectrum of compound 7a.
Figure S11. The ESI-MS spectrum of compound 7b.

Figure S12. The 1H-NMR spectrum of compound 7b.
Figure S13. The ESI-MS spectrum of compound 8a.

Figure S14. The 'H-NMR spectrum of compound 8a.
Figure S15. The ESI-MS spectrum of compound 8b.

Figure S16. The $^1$H-NMR spectrum of compound 8b.
Figure S17. The ESI-MS spectrum of compound 9a.

Figure S18. The $^1$H-NMR spectrum of compound 9a.
Figure S19. The ESI-MS spectrum of compound 9b.

Figure S20. The $^1$H-NMR spectrum of compound 9b.
Figure S21. The ESI-MS spectrum of compound 10a.

Figure S22. The ¹H-NMR spectrum of compound 10a.
Figure S23. The ESI-MS spectrum of compound 10b.

Figure S24. The $^1$H-NMR spectrum of compound 10b.
Figure S25. The ESI-MS spectrum of compound 10c.

Figure S26. The $^1$H-NMR spectrum of compound 10c.
Figure S27. The ESI-MS spectrum of compound 11a.

Figure S28. The $^1$H-NMR spectrum of compound 11a.
Figure S29. The ESI-MS spectrum of compound 11b.

Figure S30. The $^1$H-NMR spectrum of compound 11b.
Figure S31. The ESI-MS spectrum of compound 11c.

Figure S32. The $^1$H-NMR spectrum of compound 11c.
Figure S33. The ESI-MS spectrum of compound 12a.

Figure S34. The $^1$H-NMR spectrum of compound 12a.
Figure S35. The ESI-MS spectrum of compound 12b.

Figure S36. The 1H-NMR spectrum of compound 12b.
Figure S37. The ESI-MS spectrum of compound 12c.

Figure S38. The ¹H-NMR spectrum of compound 12c.