SUPPORTING INFORMATION


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1. Table S1. Optimization of the reaction conditions for the formation of 5g..........................2  
2. NMR Spectra of compounds 5a-l and 6a-e........................................................................3  
3. NMR Spectra and Uv-visible spectra of compounds 7a-d..................................................18
1. Table S1. Optimization of the reaction conditions for the formation of 5g

![Chemical Reaction Diagram]

<table>
<thead>
<tr>
<th>Entry</th>
<th>Catalyst (mol %)</th>
<th>Mole ratio (2:4a)</th>
<th>Solvent</th>
<th>Time (h)</th>
<th>Yield (%)</th>
<th>Yield (%)</th>
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</table>
2. NMR Spectra of compounds 5a-l and 6a-e

Figure S1. $^1$H NMR spectrum of 5a (Solvent: CDCl$_3$)

Figure S2. $^{13}$C NMR spectrum of 5a (Solvent: CDCl$_3$)
Figure S3. $^1$H NMR spectrum of 5b (Solvent: CDCl$_3$)

Figure S4. $^{13}$C NMR spectrum of 5b (Solvent: CDCl$_3$)
Figure S5. $^1$H NMR spectrum of 5c (Solvent: CDCl$_3$)

Figure S6. $^{13}$C NMR spectrum of 5c (Solvent: CDCl$_3$)
Figure S7. $^1$H NMR spectrum of 5d (Solvent: CDCl$_3$)

Figure S8. $^{13}$C NMR spectrum of 5d (Solvent: CDCl$_3$)
Figure S9. $^1$H NMR spectrum of 5e (Solvent: CDCl$_3$)

Figure S10. $^{13}$C NMR spectrum of 5e (Solvent: CDCl$_3$)
Figure S11. $^1$H NMR spectrum of 5f (Solvent: CDCl$_3$)

Figure S12. $^{13}$C NMR spectrum of 5f (Solvent: CDCl$_3$)
Figure S13. $^1$H NMR spectrum of 5g (Solvent: CDCl$_3$)

Figure S14. $^{13}$C NMR spectrum of 5g (Solvent: CDCl$_3$)
Figure S15. $^1$H NMR spectrum of 5h (Solvent: CDCl$_3$)

Figure S16. $^{13}$C NMR spectrum of 5h (Solvent: CDCl$_3$)
Figure S17. $^1$H NMR spectrum of 5i (Solvent: CDCl$_3$)

Figure S18. $^{13}$C NMR spectrum of 5i (Solvent: CDCl$_3$)
Figure S19. $^1$H NMR spectrum of 5j (Solvent: CDCl$_3$)

Figure S20. $^{13}$C NMR spectrum of 5j (Solvent: CDCl$_3$)
Figure S21. $^1$H NMR spectrum of 5k (Solvent: CDCl$_3$)

Figure S22. $^{13}$C NMR spectrum of 5k (Solvent: CDCl$_3$)
Figure S23. $^1$H NMR spectrum of 5l (Solvent: CDCl$_3$)

Figure S24. $^{13}$C NMR spectrum of 5l (Solvent: CDCl$_3$)
Figure S25. $^1$H NMR spectrum of 6a (Solvent: CDCl$_3$)

Figure S26. $^{13}$C NMR spectrum of 6a (Solvent: CDCl$_3$)
Figure S27. $^1$H NMR spectrum of 6b (Solvent: CDCl$_3$)

Figure S28. $^{13}$C NMR spectrum of 6b (Solvent: CDCl$_3$)
Figure S29. $^1$H NMR spectrum of 6e (Solvent: CDCl$_3$)
Figure S30. $^{13}$C NMR spectrum of 6e (Solvent: CDCl$_3$)

3. NMR Spectra and Uv-visible spectra of compounds 7a-d

![NMR spectrum](image1)

Figure S31. $^1$H NMR spectrum of 7a (Solvent: CDCl$_3$)

![Uv-visible spectrum](image2)
Figure S32. UV-vis spectrum of 7a (Solvent: CH₂Cl₂)

Figure S33. ¹H NMR spectrum of 7b (Solvent: CDCl₃)

Figure S34. UV-vis spectrum of 7b (Solvent: CH₂Cl₂)
Figure S35. $^1$H NMR spectrum of 7c (Solvent: CDCl$_3$)

Figure S36. UV-vis spectrum of 7c (Solvent: CH$_2$Cl$_2$)
Figure S37. $^1$H NMR spectrum of mixture 7d with corresponding A$_4$ porphyrin (Solvent: CDCl$_3$) (Solvent residual peaks at 0.5-2.5 ppm)