Supplementary Information II (Figures)

Figure Captions

Figure S1. $^1$H-NMR (1-a), $^{13}$C-NMR (1-b) and HR-ESI-MS (1-c) spectra of compound 2
Figure S2. $^1$H-NMR (2-a), $^{13}$C-NMR (2-b) and HR-ESI-MS (2-c) spectra of compound 3
Figure S3. $^1$H-NMR (3-a), $^{13}$C-NMR (3-b) and HR-ESI-MS (3-c) spectra of compound 4
Figure S4. $^1$H-NMR (4-a), $^{13}$C-NMR (4-b) and HR-ESI-MS (4-c) spectra of compound 5
Figure S5. $^1$H-NMR (5-a), $^{13}$C-NMR (5-b) and HR-ESI-MS (5-c) spectra of compound 6
Figure S6. $^1$H-NMR (6-a), $^{13}$C-NMR (6-b) and HR-ESI-MS (6-c) spectra of compound 7
Figure S7. $^1$H-NMR (7-a), $^{13}$C-NMR (7-b) and HR-ESI-MS (7-c) spectra of compound 8
Figure S8. $^1$H-NMR (8-a), $^{13}$C-NMR (8-b) and HR-ESI-MS (8-c) spectra of compound 9
Figure S9. $^1$H-NMR (9-a), $^{13}$C-NMR (9-b) and HR-ESI-MS (9-c) spectra of compound 10
Figure S10. $^1$H-NMR (10-a), $^{13}$C-NMR (10-b) and HR-ESI-MS (10-c) spectra of compound 11
Figure S11. $^1$H-NMR (11-a), $^{13}$C-NMR (11-b) and HR-ESI-MS (11-c) spectra of compound 12
Figure S12. $^1$H-NMR (12-a), $^{13}$C-NMR (12-b) and HR-ESI-MS (12-c) spectra of compound 13
Figure S13. $^1$H-NMR (13-a), $^{13}$C-NMR (13-b) and HR-ESI-MS (13-c) spectra of compound 14
Figure S14. $^1$H-NMR (14-a), $^{13}$C-NMR (14-b) and HR-ESI-MS (14-c) spectra of compound 15
Figure S15. $^1$H-NMR (15-a), $^{13}$C-NMR (15-b) and HR-ESI-MS (15-c) spectra of compound 16
Figure S16. $^1$H-NMR (16-a), $^{13}$C-NMR (16-b) and HR-ESI-MS (16-c) spectra of compound 17
Figure S17. $^1$H-NMR (17-a), $^{13}$C-NMR (17-b) and HR-ESI-MS (17-c) spectra of compound 18
Figure S18. $^1$H-NMR (18-a), $^{13}$C-NMR (18-b) and HR-ESI-MS (18-c) spectra of compound 19
Figure S19. Purity test of compound 2 by HPLC ($\lambda=210$ nm)
Figure S20. Purity test of compound 3 by HPLC ($\lambda=210$ nm)
Figure S21. Purity test of compound 4 by HPLC ($\lambda=210$ nm)
Figure S22. Purity test of compound 5 by HPLC ($\lambda=210$ nm)
Figure S23. Purity test of compound 6 by HPLC ($\lambda=210$ nm)
Figure S24. Purity test of compound 7 by HPLC ($\lambda=210$ nm)
Figure S25. Purity test of compound 8 by HPLC ($\lambda=210$ nm)
Figure S26. Purity test of compound 9 by HPLC ($\lambda=210$ nm)
Figure S27. Purity test of compound 10 by HPLC ($\lambda=210$ nm)
Figure S28. Purity test of compound 11 by HPLC ($\lambda=210$ nm)
Figure S29. Purity test of compound 12 by HPLC ($\lambda=210$ nm)
Figure S30. Purity test of compound 13 by HPLC ($\lambda=210$ nm)
Figure S31. Purity test of compound 14 by HPLC ($\lambda=210$ nm)
Figure S32. Purity test of compound 15 by HPLC ($\lambda=210$ nm)
Figure S33. Purity test of compound 16 by HPLC ($\lambda=210$ nm)
Figure S34. Purity test of compound 17 by HPLC ($\lambda=210$ nm)
Figure S35. Purity test of compound 18 by HPLC ($\lambda=210$ nm)
Figure S36. Purity test of compound 19 by HPLC ($\lambda=210$ nm)
Figure S1. $^1$H-NMR (1-a), $^{13}$C-NMR (1-b) and HR-ESI-MS (1-c) spectra of compound 2
Figure S2. $^1$H-NMR (2-a), $^{13}$C-NMR (2-b) and HR-ESI-MS (2-c) spectra of compound 3
Figure S3. $^1$H-NMR (3-a), $^{13}$C-NMR (3-b) and HR-ESI-MS (3-c) spectra of compound 4
Figure S4. $^1$H-NMR (4-a), $^{13}$C-NMR (4-b) and HR-ESI-MS (4-c) spectra of compound 5
Figure S5. $^1$H-NMR (5-a), $^{13}$C-NMR (5-b) and HR-ESI-MS (5-c) spectra of compound 6
Figure S6. $^1$H-NMR (6-a), $^{13}$C-NMR (6-b) and HR-ESI-MS (6-c) spectra of compound 7
Figure S7. $^1$H-NMR (7-a), $^{13}$C-NMR (7-b) and HR-ESI-MS (7-c) spectra of compound 8
Figure S8. $^1$H-NMR (8-a), $^{13}$C-NMR (8-b) and HR-ESI-MS (8-c) spectra of compound 9
Figure S9. ¹H-NMR (9-a), ¹³C-NMR (9-b) and HR-ESI-MS (9-c) spectra of compound 10

10-a

10-b
Figure S10. $^1$H-NMR (10-a), $^{13}$C-NMR (10-b) and HR-ESI-MS (10-c) spectra of compound 11
Figure S11. $^1$H-NMR (11-a), $^{13}$C-NMR (11-b) and HR-ESI-MS (11-c) spectra of compound 12
Figure S12. $^1$H-NMR (12-a), $^{13}$C-NMR (12-b) and HR-ESI-MS (12-c) spectra of compound 13
Figure S13. $^1$H-NMR (13-a), $^{13}$C-NMR (13-b) and HR-ESI-MS (13-c) spectra of compound 14

14-a

14-b
Figure S14. $^1$H-NMR (14-a), $^{13}$C-NMR (14-b) and HR-ESI-MS (14-c) spectra of compound 15
Figure S15. $^1$H-NMR (15-a), $^{13}$C-NMR (15-b) and HR-ESI-MS (15-c) spectra of compound 16
Figure S16. $^1$H-NMR (16-a), $^{13}$C-NMR (16-b) and HR-ESI-MS (16-c) spectra of compound 17
Figure S17. $^1$H-NMR (17-a), $^{13}$C-NMR (17-b) and HR-ESI-MS (17-c) spectra of compound 18
Figure S18. $^1$H-NMR (18-a), $^{13}$C-NMR (18-b) and HR-ESI-MS (18-c) spectra of compound 19
Figure S19. Purity test of compound 2 by HPLC ($\lambda=210$ nm)

Figure S20. Purity test of compound 3 by HPLC ($\lambda=210$ nm)

Figure S21. Purity test of compound 4 by HPLC ($\lambda=210$ nm)
Figure S22. Purity test of compound 5 by HPLC ($\lambda$=210 nm)

Figure S23. Purity test of compound 6 by HPLC ($\lambda$=210 nm)

Figure S24. Purity test of compound 7 by HPLC ($\lambda$=210 nm)
Figure S25. Purity test of compound 8 by HPLC (λ=210 nm)

Figure S26. Purity test of compound 9 by HPLC (λ=210 nm)

Figure S27. Purity test of compound 10 by HPLC (λ=210 nm)
Figure S28. Purity test of compound 11 by HPLC ($\lambda=210$ nm)

Figure S29. Purity test of compound 12 by HPLC ($\lambda=210$ nm)

Figure S30. Purity test of compound 13 by HPLC ($\lambda=210$ nm)
Figure S31. Purity test of compound 14 by HPLC ($\lambda$=210 nm)

Figure S32. Purity test of compound 15 by HPLC ($\lambda$=210 nm)

Figure S33. Purity test of compound 16 by HPLC ($\lambda$=210 nm)
Figure S34. Purity test of compound 17 by HPLC ($\lambda=210$ nm)

Figure S35. Purity test of compound 18 by HPLC ($\lambda=210$ nm)

Figure S36. Purity test of compound 19 by HPLC ($\lambda=210$ nm)
Table S1. Energies of the dominative conformers of 6 at MMFF94 force field.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Conformer</th>
<th>Energy (kcal/mol)</th>
<th>Population (%)</th>
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</thead>
<tbody>
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<tr>
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<td>19.18</td>
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<tr>
<td></td>
<td>3</td>
<td>111.77</td>
<td>7.16</td>
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<tr>
<td></td>
<td>4</td>
<td>112.40</td>
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</tr>
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<tr>
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<tr>
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<td>3</td>
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<td>5.07</td>
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</table>
**Table S2.** Energies of the conformers of 6 at B3LYP/6-311G** in methanol.

<table>
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<tr>
<th>Configuration</th>
<th>Conformation</th>
<th>Structure</th>
<th>E (Hartree)</th>
<th>E (kcal/mol)</th>
<th>Population (%)</th>
</tr>
</thead>
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<td>-1068180.58</td>
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<td></td>
<td><img src="image6.png" alt="Image" /></td>
<td>-1702.254164</td>
<td>-1068180.61</td>
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Table S3. The parameters of $\sigma$ and UV-shift for each configuration of 6

<table>
<thead>
<tr>
<th>Configuration</th>
<th>UV-shift value (nm)</th>
<th>$\sigma$-shift value (eV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>0.36</td>
<td>10</td>
</tr>
<tr>
<td>b</td>
<td>0.36</td>
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