# **Supplementary Materials**

**Contents:** 

Figure S1. <sup>1</sup>H-NMR Spectrum of 1 in CDCl<sub>3</sub>. Figure S2. <sup>13</sup>C-NMR Spectrum of 1 in CDCl<sub>3</sub>. Figure S3. <sup>1</sup>H-<sup>1</sup>H COSY Spectrum of 1 in CDCl<sub>3</sub>. Figure S4. HSQC Spectrum of 1 in CDCl<sub>3</sub>. Figure S5. HMBC Spectrum of 1 in CDCl<sub>3</sub>. Figure S6. NOESY Spectrum of 1 in CDCl<sub>3</sub>. Figure S7. <sup>1</sup>H-NMR Spectrum of 2 in Pyridine. Figure S8. <sup>13</sup>C-NMR Spectrum of 2 in Pyridine. **Figure S9.** <sup>1</sup>H-<sup>1</sup>H COSY Spectrum of **2** in Pyridine. Figure S10. HSQC Spectrum of 2 in Pyridine. Figure S11. HMBC Spectrum of 2 in Pyridine. Figure S12. NOESY Spectrum of 2 in Pyridine. Figure S13. <sup>1</sup>H-NMR Spectrum of 3 in CDCl<sub>3</sub>. Figure S14. <sup>13</sup>C-NMR Spectrum of 3 in CDCl<sub>3</sub>. Figure S15. <sup>1</sup>H-<sup>1</sup>H COSY Spectrum of 3 in CDCl<sub>3</sub>. Figure S16. HSQC Spectrum of 3 in CDCl<sub>3</sub>. Figure S17. HMBC Spectrum of 3 in CDCl<sub>3</sub>. Figure S18. NOESY Spectrum of 3 in CDCl<sub>3</sub>. Figure S19. <sup>1</sup>H-NMR Spectrum of 4 in CDCl<sub>3</sub>. Figure S20. <sup>13</sup>C-NMR Spectrum of 4 in CDCl<sub>3</sub>. Figure S21. <sup>1</sup>H-NMR Spectrum of 5 in CDCl<sub>3</sub>. Figure S22. <sup>13</sup>C-NMR Spectrum of 5 in CDCl<sub>3</sub>. Figure S23. <sup>1</sup>H-NMR Spectrum of 6 in CDCl<sub>3</sub>. Figure S24. <sup>13</sup>C-NMR Spectrum of 6 in CDCl<sub>3</sub>. Figure S25. <sup>1</sup>H-NMR Spectrum of 7 in CDCl<sub>3</sub>. Figure S26. <sup>13</sup>C-NMR Spectrum of 7 in CDCl<sub>3</sub>. Figure S27. The selected HMBC (H $\longrightarrow$ C), <sup>1</sup>H-<sup>1</sup>H COSY (H $\longrightarrow$ H) and NOESY (H / `` ` H) correlations. Figure S28. The CD spectra of compounds 3 and 3c.

Figure S29. The entire HMBC correlations and  ${}^{1}H{}^{-1}H COSY (H - H)$  correlations of compound 1.

**Figure S30.** The selected NOESY (H**\***<sup>(1)</sup> +H) correlations of compound **3**.

**Table S1.** The purities of compounds 1–7.





**Figure S2.** <sup>13</sup>C-NMR Spectrum of **1** in CDCl<sub>3</sub>.



**Figure S3.** <sup>1</sup>H-<sup>1</sup>H COSY Spectrum of **1** in CDCl<sub>3</sub>.



**Figure S4.** HSQC Spectrum of **1** in CDCl<sub>3</sub>.



### Figure S5. HMBC Spectrum of 1 in CDCl<sub>3</sub>.



### Figure S6. NOESY Spectrum of 1 in CDCl<sub>3</sub>.



6.0142 6.0069 5.9078 4.5139 24000 7.3873 7.3672 7.2789 7.2789 7.2749 7.2588 7.2549 2.8075 2.6400 2.5976 2.5575 2.5158 2.5158 2.5158 2.5158  $1.2760 \\ 1.2055 \\ 1.0257$ 8.0558 8.0531 3.8760 8.7304 511 42 - 22000 +  $\leq$ + 1 -20000 18000 16000 , CH₃ 14000 CH<sub>3</sub> ≣ HQ 12000 но Ó 10000 H<sub>3</sub>C CH<sub>3</sub> - 8000 - 6000 - 4000 - 2000 W - 0 -2000 1.76= 0.83= 1.76= 3.04= 3.20 3.06= 3.10= 0.91<del>、</del> 1.00<sup>∞</sup> 1.71-1.00H ₽-7-1 0.86-8.0 6.0 4.5 fl (ppm) 3.0 0.5 7.5 7.0 4.0 2.5 1.5 9.0 8.5 6.5 5.5 5.0 3.5 2.0 1.0 0.0

**Figure S7.** <sup>1</sup>H-NMR Spectrum of **2** in Pyridine.

## **Figure S8.** <sup>13</sup>C-NMR Spectrum of **2** in Pyridine.





**Figure S9.** <sup>1</sup>H-<sup>1</sup>H COSY Spectrum of **2** in Pyridine.



#### Figure S10. HSQC Spectrum of 2 in Pyridine.



### Figure S11. HMBC Spectrum of 2 in Pyridine.



### Figure S12. NOESY Spectrum of 2 in Pyridine.



Figure S13. <sup>1</sup>H-NMR Spectrum of 3 in CDCl<sub>3</sub>.

Figure S14. <sup>13</sup>C-NMR Spectrum of 3 in CDCl<sub>3</sub>.



Figure S15. <sup>1</sup>H-<sup>1</sup>H COSY Spectrum of 3 in CDCl<sub>3</sub>.





### Figure S16. HSQC Spectrum of 3 in CDCl<sub>3</sub>.



Figure S17. HMBC Spectrum of 3 in CDCl<sub>3</sub>.

![](_page_18_Figure_1.jpeg)

Figure S18. NOESY Spectrum of 3 in CDCl<sub>3</sub>.

Figure S19. <sup>1</sup>H-NMR Spectrum of 4 in CDCl<sub>3</sub>.

![](_page_19_Figure_2.jpeg)

# Figure S20. <sup>13</sup>C-NMR Spectrum of 4 in CDCl<sub>3</sub>.

![](_page_20_Figure_2.jpeg)

### Figure S21. <sup>1</sup>H-NMR Spectrum of 5 in CDCl<sub>3</sub>.

![](_page_21_Figure_2.jpeg)

## Figure S22. <sup>13</sup>C-NMR Spectrum of 5 in CDCl<sub>3</sub>.

![](_page_22_Figure_2.jpeg)

### Figure S23. <sup>1</sup>H-NMR Spectrum of 6 in CDCl<sub>3</sub>.

![](_page_23_Figure_2.jpeg)

#### Molecules 2014, 19

Figure S24. <sup>13</sup>C-NMR Spectrum of 6 in CDCl<sub>3</sub>.

![](_page_24_Figure_2.jpeg)

Figure S25. <sup>1</sup>H-NMR Spectrum of 7 in CDCl<sub>3</sub>.

![](_page_25_Figure_2.jpeg)

Figure S26. <sup>13</sup>C-NMR Spectrum of 7 in CDCl<sub>3</sub>.

![](_page_26_Figure_2.jpeg)

**Figure S27.** The selected HMBC (H $\longrightarrow$ C), H-H COSY (H $\longrightarrow$ H) and NOESY (H $\checkmark$ <sup>(1)</sup>(H) correlations.

![](_page_27_Figure_2.jpeg)

![](_page_27_Figure_3.jpeg)

![](_page_27_Figure_4.jpeg)

**Figure S29.** The entire HMBC correlations and <sup>1</sup>H-<sup>1</sup>H COSY (H—H) correlations of compound **1**.

![](_page_27_Picture_6.jpeg)

**Figure S30.** The selected NOESY (H**\***<sup>(1)</sup> H) correlations of compound **3**.

![](_page_28_Figure_2.jpeg)

**Table S1.** The purities of compounds 1–7.

Compound No.	Purity (%)
1	98.92
2	99.30
3	99.01
4	98.87
5	99.08
6	99.21
7	98.99