

Table S1. COSY and HMBC data for compound 2 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1		H-2, H-4, H-6
2	H-3, H-4, H-6	H-3, H-4, H-5, H-6
3	H-2, H-4, H-5	H-4, H-5, H-6
4	H-2, H-3, H-5	H-3, H-5
5	H-3, H-4, H-2', H-6'	H-2, H-3, H-4, H-2', H-6'
6	H-2, H-2'', 6''	H-2, H-3, H-2'', 6''
1'		H-3, H-5
2'		H-5, H-6'
3'	H-5	H-2', -OCH <sub>2</sub> O-
4'		H-2', H-6', -OCH <sub>2</sub> O-
5'		H-6', OCH <sub>3</sub> -5'
6'	H-5, OCH <sub>3</sub> -5'	H-5, H-2'
1''		H-2, H-6, H-2'', 6''
2''	H-6, OCH <sub>3</sub> -3''	H-6, H-6''
3''		H-2'', OCH <sub>3</sub> -3''
4''		H-2'', 6'', OCH <sub>3</sub> -4''
5''		H-6'', OCH <sub>3</sub> -5''
6''	H-6, OCH <sub>3</sub> -5''	H-6, H-2''
-OCH <sub>2</sub> O-		
OCH <sub>3</sub> -5'	H-6'	
OCH <sub>3</sub> -3''	H-2''	
OCH <sub>3</sub> -4''		
OCH <sub>3</sub> -5''	H-6''	

Table S2. COSY and HMBC data for compound 3 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1		H-2, H-4, H-6
2	H-6	H-3, H-4, H-5, H-6
3	H-4, H-5	H-2, H-4, H-5, H-6
4	H-5	H-3, H-5
5	H-3, H-4, H-6'	H-2, H-3, H-4, H-2', H-6'
6	H-2	H-2, H-3, H-2'', H-6''
1'		H-5
2'	H-6'	H-5, H-6'
3'		H-2', -OCH <sub>2</sub> O-
4'		H-2', H-6', -OCH <sub>2</sub> O-
5'		H-6', OCH <sub>3</sub> -5'
6'	H-5, H-2', OCH <sub>3</sub> -5'	H-5, H-2'
1''		H-2, H-6, H-5''
2''	H-6'', OCH <sub>3</sub> -3''	H-6, H-5'', H-6''
3''		H-2'', H-5'', OCH <sub>3</sub> -3''
4''		H-2'', H-5'', H-6''
5''	H-6''	H-2''
6''	H-2'', H-5''	H-6, H-2''
-OCH <sub>2</sub> O-		
OCH <sub>3</sub> -5'		
OCH <sub>3</sub> -3''		

Table S3. COSY and HMBC data for compound 4 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1		
2	H-6	H-2, H-4, H-6
3	H-4, H-5	H-4, H-5, H-6
4	H-3, H-5	H-4, H-5, H-6
5	H-4	H-5
6	H-2, H-2'', 6''	H-2, H-3, H-4, H-2', H-6'
1'		H-2, H-3, H-2'', 6''
2'	H-6'	H-5
3'		H-5, H-6'
4'		H-2', -OCH <sub>2</sub> O-
5'		H-2', H-6', -OCH <sub>2</sub> O-
6'		H-6', OCH <sub>3</sub> -5'
1''	H-2', OCH <sub>3</sub> -5'	H-5, H-2'
2''		H-2, H-6, H-2''
3''	H-6, OCH <sub>3</sub> -3''	H-6, H-6''
4''		H-2'', OCH <sub>3</sub> -3''
5''		H-2'', 6''
6''	H-6, OCH <sub>3</sub> -5''	H-6'', OCH <sub>3</sub> -5''
-OCH <sub>2</sub> O-		H-6, H-2''
OCH <sub>3</sub> -5'	H-6'	
OCH <sub>3</sub> -3''	H-2''	
OCH <sub>3</sub> -5''	H-6''	

Table S4. COSY and HMBC data for compound 5 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1		H-2, H-4, H-6
2	H-6	H-3, H-5, H-6
3	H-4, H-5	H-2, H-5, H-6
4	H-3, H-5	H-3, H-5
5	H-3, H-4	H-2, H-3, H-4, H-2', H-6'
6	H-2, H-2'', 6''	H-2, H-3, H-2'', 6''
1'		H-5, H-5'
2'		H-5, H-6'
3'		H-2', H-5', -OCH <sub>2</sub> O-
4'		H-2', H-5', H-6', -OCH <sub>2</sub> O-
5'	H-6'	
6'	H-5'	
1''		H-5, H-2'
2''		H-2, H-6, H-2'', 6''
3''	H-6, OCH <sub>3</sub> -3''	H-6, H-6''
4''		H-2'', OCH <sub>3</sub> -3''
5''		H-2'', 6''
6''	H-6, OCH <sub>3</sub> -5''	H-6'', OCH <sub>3</sub> -5''
-OCH <sub>2</sub> O-		H-6, H-2''
OCH <sub>3</sub> -3''	H-2''	
OCH <sub>3</sub> -5''	H-6''	

Table S5. COSY and HMBC data for compound 6 (500M Hz, CDCl<sub>3</sub>)

position	H-H COSY	HMBC
1	H-2	H-3, H-6
2	H-1	H-4
3	H-2, H-4	H-1
4	H-3	H-2, H-5
5	H-2, H-3, H-2', 6'	H-2', 6'
6		H-1, H-2'', H-6''
1'		H-5, H-2', 6'
2'		H-5, H-6'
3'	H-5, OCH <sub>3</sub> -3'	H-2', OCH <sub>3</sub> -3'
4'		H-2', 6', OCH <sub>3</sub> -4'
5'		H-6', OCH <sub>3</sub> -5'
6'	H-5, OCH <sub>3</sub> -5'	H-5, H-2'
1''		H-6
2''	H-6''	H-6, H-6''
3''		H-2'', -OCH <sub>2</sub> O-
4''		H-2'', H-6'', -OCH <sub>2</sub> O-
5''		H-6'', OCH <sub>3</sub> -5''
6''	H-2'', OCH <sub>3</sub> -5''	H-6, H-2''
-OCH <sub>2</sub> O-		
OCH <sub>3</sub> -5''	H-6''	
OCH <sub>3</sub> -3'	H-2'	
OCH <sub>3</sub> -4'		
OCH <sub>3</sub> -5'	H-6'	
2 × C=O		
2 × CH <sub>3</sub>		H-1, H-4, CH <sub>3</sub>

Table S6. COSY and HMBC data for compound 7 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1	H-2	H-6
2	H-1, H-3, H-6	H-1, H-4, H-5, H-6
3	H-2, H-4, H-5	H-1, H-4, H-5
4	H-3	H-5
5	H-3, H-2', H-6'	H-4
6	H-2, H-2'', H-6''	H-1, H-6''
1'		H-5
2'	H-5, H-6'	H-5, H-6'
3'		H-2', -OCH <sub>2</sub> O-
4'		H-2', H-6', -OCH <sub>2</sub> O-
5'		H-6', OCH <sub>3</sub> -5'
6'	H-5, H-2', OCH <sub>3</sub> -5'	H-5, H-2'
1''		H-6
2''	H-6, H-6''	H-6, H-6''
3''		H-2'', -OCH <sub>2</sub> O-
4''		H-2'', H-6'', -OCH <sub>2</sub> O-
5''		H-6'', OCH <sub>3</sub> -5''
6''	H-6, H-2'', OCH <sub>3</sub> -5''	H-6, H-2''
2 × -OCH <sub>2</sub> O- OCH <sub>3</sub> -5', 5''		
C=O	H-6', H-6''	
CH <sub>3</sub>		H-1, CH <sub>3</sub>

Table S7. COSY and HMBC data for compound 8 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1	H-2	H-2, H-3, H-6
2	H-1, H-6	H-1, H-4, H-5, H-6
3	H-4, H-5	H-1, H-4, H-5, H-6
4	H-3	H-2, H-3, H-5
5	H-3, H-2',6'	H-2, H-3, H-4, H-2',6'
6	H-2, H-2'', H-6''	
1'		H-5, H-2',6'
2'		H-5, H-6'
3'	H-5, OCH <sub>3</sub> -3'	H-2', OCH <sub>3</sub> -3'
4'		H-2', 6'
5'		H-6', OCH <sub>3</sub> -5'
6'	H-5, OCH <sub>3</sub> -5'	H-5, H-2'
1''		H-6
2''	H-6, H-6''	H-6, H-6''
3''		H-2'', -OCH <sub>2</sub> O-
4''		H-2'', H-6'', -OCH <sub>2</sub> O-
5''		H-6'', OCH <sub>3</sub> -5''
6''	H-6, H-2'', OCH <sub>3</sub> -5''	H-6, H-2''
-OCH <sub>2</sub> O-		
OCH <sub>3</sub> -5''	H-6''	
OCH <sub>3</sub> -3',5'	H-2',6'	
2 × C=O		
2 × CH <sub>3</sub>		H-1, H-4, CH <sub>3</sub>

Table S8. COSY and HMBC data for compound 9 (500M Hz, CDCl<sub>3</sub>)

position	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1	H-2	H-6
2	H-1, H-6	H-1, H-4, H-5, H-6
3	H-4, H-5	H-1, H-4, H-5, H-6
4	H-3	H-5
5	H-3	H-4, H-2', H-6'
6	H-2	H-1, H-2'', H-6''
1'		H-5, H-5'
2'	H-6'	H-5, H-6'
3'		H-2', H-5', -OCH <sub>2</sub> O-
4'		H-2', H-5', H-6', -OCH <sub>2</sub> O-
5'	H-6'	
6'	H-2', H-5'	
1''		H-5, H-2'
2''	H-6''	H-6
3''		H-6, H-6''
4''		H-2'', -OCH <sub>2</sub> O-
5''		H-2'', H-6'', -OCH <sub>2</sub> O-
6''	H-2'', OCH <sub>3</sub> -5''	H-6'', OCH <sub>3</sub> -5''
2 × -OCH <sub>2</sub> O-		H-6, H-2''
OCH <sub>3</sub> -5''	H-6''	

Table 6. The <sup>1</sup>H NMR and <sup>13</sup>C NMR data for compound 2 (500M Hz, CDCl<sub>3</sub>)

Position	δ <sub>C</sub>	δ <sub>H</sub> (J, Hz)	<sup>1</sup> H- <sup>1</sup> H COSY	HMBC
1	178.5			H-2, H-4, H-6
2	46.5	2.58 (1H, m)	H-3, H-4, H-6	H-3, H-4, H-5, H-6
3	41.1	2.50 (1H, m)	H-2, H-4, H-5	H-4, H-5, H-6
4	71.2	4.18 (1H, dd, 7.3, 9.0) 3.88 (1H, dd, 7.3, 9.0)	H-2, H-3, H-5	H-3, H-5
5	38.7	2.60 (1H, dd, 6.1, 13.4) 2.52 (1H, dd, 8.1, 13.4)	H-3, H-4, H-2', H-6'	H-2, H-3, H-4, H-2', H-6'
6	35.3	2.94 (1H, dd, 5.4, 14.0) 2.90 (1H, dd, 6.6, 14.0)	H-2, H-2'', 6''	H-2, H-3, H-2'', 6''
1'	132.3			H-3, H-5
2'	102.4	6.17 (1H, br.s)	H-5	H-5, H-6'
3'	149.2			H-2', -OCH <sub>2</sub> O-
4'	134.0			H-2', H-6', -OCH <sub>2</sub> O-
5'	143.5			H-6', 5'-OCH <sub>3</sub>
6'	108.3	6.16 (1H, br.s)	H-5, 5'-OCH <sub>3</sub>	H-5, H-2'
1''	133.3			H-2, H-6, H-2'', 6''
2''	106.3	6.37 (1H, s)	H-6, 3''-OCH <sub>3</sub>	H-6, H-6''
3''	153.3			H-2'', 3''-OCH <sub>3</sub>
4''	137.0			H-2'', 6'', 4''-OCH <sub>3</sub>
5''	153.3			H-6'', 5''-OCH <sub>3</sub>
6''	106.3	6.37 (1H, s)	H-6, 5''-OCH <sub>3</sub>	H-6, H-2''
-OCH <sub>2</sub> O-	101.5	5.93 (2H, d, 2.0)		
5'-OCH <sub>3</sub>	56.7	3.86 (3H, s)	H-6'	
3''-OCH <sub>3</sub>	56.1	3.83 (3H, s)	H-2''	
4''-OCH <sub>3</sub>	60.9	3.82 (3H, s)		
5''-OCH <sub>3</sub>	56.1	3.83 (3H, s)	H-6''	

Table 7. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 3 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_{\text{C}}$	$\delta_{\text{H}}$ (J, Hz)	$^1\text{H}$ -H COSY	HMBC
1	178.6			H-2, H-4, H-6
2	46.6	2.55 (1H, ddd, 5.1, 7.0, 7.2)	H-6	H-3, H-4, H-5, H-6
3	41.0	2.46 (1H, m)	H-4, H-5	H-2, H-4, H-5, H-6
4	71.2	4.14 (1H, dd, 7.1, 9.2)	H-5	H-3, H-5
		3.86 (1H, dd, 7.3, 9.2)		
5	38.7	2.58 (1H, dd, 9.8, 17.1)	H-3, H-4, H-6'	H-2, H-3, H-4, H-2'', H-6'
		2.47 (1H, m)		
6	34.6	2.96 (1H, dd, 5.1, 14.2)	H-2	H-2, H-3, H-2'', H-6''
		2.88 (1H, dd, 7.0, 14.2)		
1'	132.4			H-5
2'	102.5	6.16 (1H, d, 1.2)	H-6'	H-5, H-6'
3'	149.0			H-2', -OCH <sub>2</sub> O-
4'	134.0			H-2', H-6', -OCH <sub>2</sub> O-
5'	143.5			H-6', 5'-OCH <sub>3</sub>
6'	108.1	6.12 (1H, d, 1.2)	H-5, H-2', 5'-OCH <sub>3</sub>	H-5, H-2'
1''	129.4			H-2, H-6, H-5''
2''	111.5	6.66 (1H, d, 1.7)	H-6'', 3''-OCH <sub>3</sub>	H-6, H-5'', H-6''
3''	146.7			H-2'', H-5'', 3''-OCH <sub>3</sub>
4''	144.5			H-2'', H-5'', H-6''
5''	114.2	6.83 (1H, d, 7.8)	H-6''	H-2'', H-5'', H-6''
6''	122.0	6.62 (1H, dd, 1.7, 7.8)	H-2'', H-5''	H-2''
-OCH <sub>2</sub> O-	101.4	5.94 (2H, s)		H-6, H-2''
5'-OCH <sub>3</sub>	56.6	3.85 (3H, s)		
3''-OCH <sub>3</sub>	55.9	3.84 (3H, s)		

Table 8. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 4 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_{\text{C}}$	$\delta_{\text{H}} (J, \text{Hz})$	$^1\text{H}-^1\text{H}$ COSY	HMBC
1	178.6			H-2, H-4, H-6
2	46.6	2.57 (1H, m)	H-6	H-4, H-5, H-6
3	40.9	2.47 (1H, m)	H-4, H-5	H-4, H-5, H-6
4	71.2	4.17 (1H, dd, 7.3, 9.0) 3.87 (1H, dd, 7.6, 9.0)	H-3, H-5	H-5
5	38.7	2.58 (1H, dd, 5.8, 16.6) 2.50 (1H, dd, 8.0, 16.6)	H-4	H-2, H-3, H-4, H-2'', H-6'
6	35.1	2.93 (1H, dd, 5.5, 14.0) 2.88 (1H, dd, 6.7, 14.0)	H-2, H-2'', 6''	H-2, H-3, H-2'', 6''
1'	132.3			H-5
2'	102.4	6.17 (1H, d, 1.5)	H-6'	H-5, H-6'
3'	149.1			H-2', -OCH <sub>2</sub> O-
4'	134.0			H-2', H-6', -OCH <sub>2</sub> O-
5'	143.5			H-6', 5'-OCH <sub>3</sub>
6'	108.2	6.14 (1H, d, 1.5)	H-2', 5'-OCH <sub>3</sub>	H-5, H-2'
1''	128.6			H-2, H-6, H-2''
2''	105.9	6.36 (1H, s)	H-6, 3''-OCH <sub>3</sub>	H-6, H-6''
3''	147.1			H-2'', 3''-OCH <sub>3</sub>
4''	133.6			H-2'', 6''
5''	147.1			H-6'', 5''-OCH <sub>3</sub>
6''	105.9	6.36 (1H, s)	H-6, 5''-OCH <sub>3</sub>	H-6, H-2''
-OCH <sub>2</sub> O-	101.4	5.94 (2H, m)		
5'-OCH <sub>3</sub>	56.7	3.85 (3H, s)	H-6'	
3''-OCH <sub>3</sub>	56.3	3.86 (3H, s)	H-2''	
5''-OCH <sub>3</sub>	56.3	3.86 (3H, s)	H-6''	

Table 9. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 5 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_{\text{C}}$	$\delta_{\text{H}}$ (J, Hz)	$^1\text{H}$ - $^1\text{H}$ COSY	HMBC
1	178.6			H-2, H-4, H-6
2	46.6	2.55 (1H, m)	H-6	H-3, H-5, H-6
3	40.9	2.47 (1H, m)	H-4, H-5	H-2, H-5, H-6
4	71.2	4.15 (1H, dd, 7.3, 9.0) 3.86 (1H, m)	H-3, H-5	H-3, H-5
5	38.4	2.61 (1H, dd, 6.1, 13.2) 2.50 (1H, m)	H-3, H-4	H-2, H-3, H-4, H-2'', H-6'
6	35.1	2.90 (2H, dd, 5.1, 14.2) 2.90 (2H, dd, 6.8, 14.2)	H-2, H-2'', 6''	H-2, H-3, H-2'', 6''
1'	131.6			H-5, H-5'
2'	108.7	6.45 (1H, d, 1.5)		H-5, H-6'
3'	147.9			H-2', H-5', -OCH <sub>2</sub> O-
4'	146.4			H-2', H-5', H-6', -OCH <sub>2</sub> O-
5'	108.3	6.69 (1H, d, 7.6)	H-6'	
6'	121.5	6.47 (1H, dd, 1.5, 7.6)	H-5'	
1''	128.6			H-5, H-2'
2''	105.9	6.36 (1H, s)	H-6, 3''-OCH <sub>3</sub>	H-2, H-6, H-2'', 6''
3''	147.0			H-6, H-6''
4''	133.6			H-2'', 3''-OCH <sub>3</sub>
5''	147.0			H-2'', 6''
6''	105.9	6.36 (1H, s)	H-6, 5''-OCH <sub>3</sub>	H-6'', 5''-OCH <sub>3</sub>
-OCH <sub>2</sub> O-	101.1	5.93 (2H, dd, 1.5, 4.2)		H-6, H-2''
3''-OCH <sub>3</sub>	56.3	3.86 (3H, s)	H-2''	
5''-OCH <sub>3</sub>	56.3	3.86 (3H, s)	H-6''	

Table 10. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 6 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_c$	$\delta_H$ (J, Hz)	$^1\text{H}$ - $^1\text{H}$ COSY	HMBC
1	64.3	4.19 (1H, <i>dd</i> , 5.9, 11.2)	H-2	H-3, H-6
2	39.5	4.02 (1H, <i>dd</i> , 5.9, 11.2)		H-4
3	39.8	2.13 (1H, <i>m</i> )	H-1, H-2, H-4	H-1
4	64.2	2.09 (1H, <i>m</i> )		H-2, H-5
		4.23 (1H, <i>dd</i> , 5.9, 11.2)		
		4.00 (1H, <i>dd</i> , 5.9, 11.2)		
5	35.7	2.62 (1H, <i>m</i> )	H-2, H-3, H-2', 6'	H-2', 6'
		2.61 (1H, <i>m</i> )		
6	35.4	2.65 (1H, <i>dd</i> , 8.1, 14.0)		H-1, H-2'', H-6''
		2.60 (1H, <i>dd</i> , 7.8, 14.0)		
1'	135.3			H-5, H-2', 6'
2'	105.7			H-5, H-6'
3'	153.1		H-5, 3'-OCH <sub>3</sub>	H-2', 3'-OCH <sub>3</sub>
4'	136.4			H-2', 6', 4'-OCH <sub>3</sub>
5'	153.1			H-6', 5'-OCH <sub>3</sub>
6'	105.7		H-5, 5'-OCH <sub>3</sub>	H-5, H-2'
1''	134.1			H-6
2''	102.8		H-6''	H-6, H-6''
3''	148.9			H-2'', -OCH <sub>2</sub> O-
4''	133.5			H-2'', H-6'', -OCH <sub>2</sub> O-
5''	143.4			H-6'', 5''-OCH <sub>3</sub>
6''	108.2		H-2'', 5''-OCH <sub>3</sub>	H-6, H-2''
-OCH <sub>2</sub> O-	101.3	6.27 (1H, <i>s</i> )		
5''-OCH <sub>3</sub>	56.6	6.23 (1H, <i>br. s</i> )		
3'-OCH <sub>3</sub>	56.0			
4'-OCH <sub>3</sub>	60.8			
5'-OCH <sub>3</sub>	56.0			
2 x C=O	170.9			
2 x CH <sub>3</sub>	21.0	2.07 (6H, <i>s</i> )		H-1, H-4, CH <sub>3</sub>

Table 11. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 7 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_{\text{C}}$	$\delta_{\text{H}}$ (J, Hz)	$^1\text{H}$ -H COSY	HMBC
1	64.6	4.17 (1H, dd, 6.0, 11.2)	H-2	H-6
2	39.9	4.05 (1H, dd, 5.6, 11.2)	H-1, H-3, H-6	H-1, H-4, H-5, H-6
3	43.1	2.17 (1H, m)	H-2, H-4, H-5	H-1, H-4, H-5
4	62.4	1.93 (1H, m)	H-3	H-5
5	35.2	3.64 (2H, d, 5.4)	H-3, H-2', H-6'	H-4
6	35.5	2.61 (2H, d, 7.6)	H-2, H-2'', H-6''	H-1, H-6''
1'	134.9	2.68 (1H, dd, 7.1, 13.9)		H-5
2'	102.9	2.56 (1H, dd, 8.1, 13.9)		H-5, H-6'
3'	148.8	6.30 (1H, d, 1.5)	H-5, H-6'	H-2', -OCH <sub>2</sub> O-
4'	133.4			H-2', H-6', -OCH <sub>2</sub> O-
5'	143.4			H-6', 5'-OCH <sub>3</sub>
6'	108.1	6.27 (1H, d, 1.5)	H-5, H-2', 5'-OCH <sub>3</sub>	H-5, H-2'
1''	134.5			H-6
2''	102.9	6.28 (1H, d, 1.5)	H-6, H-6''	H-6, H-6''
3''	148.8			H-2'', -OCH <sub>2</sub> O-
4''	133.4			H-2'', H-6'', -OCH <sub>2</sub> O-
5''	143.4			H-6'', 5''-OCH <sub>3</sub>
6''	108.1	6.24 (1H, d, 1.5)	H-6, H-2'', 5''-OCH <sub>3</sub>	H-6, H-2''
2 x -OCH <sub>2</sub> O-	101.3	5.93 (4H, m)		
5', 5''-OCH <sub>3</sub>	56.5	3.86 (6H, s)		
C=O	171.0			
CH <sub>3</sub>	21.0	2.07 (3H, s)		H-1, CH <sub>3</sub>

Table 12. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 8 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_c$	$\delta_H$ (J, Hz)	$^1\text{H}$ -H COSY	HMBC
1	64.3	4.19 (1H, dd, 6.0, 11.4) 4.02 (1H, dd, 5.6, 11.4)	H-2	H-2, H-3, H-6
2	39.6	2.06 (1H, m)	H-1, H-6	H-1, H-4, H-5, H-6
3	39.6	2.06 (1H, m)	H-4, H-5	H-1, H-4, H-5, H-6
4	64.2	4.23 (1H, dd, 5.6, 11.2) 3.99 (1H, dd, 6.1, 11.2)	H-3	H-2, H-3, H-5
5	35.6	2.61 (2H, d, 7.3)	H-3, H-2', 6'	H-2, H-3, H-4, H-2', 6'
6	35.5	2.61 (2H, d, 7.3)	H-2, H-2'', H-6''	H-5, H-2', 6'
1'	130.6	6.26 (1H, s)	H-5, 3'-OCH <sub>3</sub>	H-5, H-6'
2'	105.4			H-2', 3'-OCH <sub>3</sub>
3'	146.9			H-2', 6'
4'	133.0			H-6', 5'-OCH <sub>3</sub>
5'	146.9			H-5, H-2'
6'	105.4	6.26 (1H, s)	H-5, 5'-OCH <sub>3</sub>	H-6
1''	134.2			H-6, H-6''
2''	102.9	6.23 (1H, d, 1.5)	H-6, H-6''	H-2'', -OCH <sub>2</sub> O-
3''	148.8			H-2'', H-6'', -OCH <sub>2</sub> O-
4''	133.5			H-6'', 5''-OCH <sub>3</sub>
5''	143.4			H-6, H-2''
6''	108.1	6.19 (1H, d, 1.5)	H-6, H-2'', 5''-OCH <sub>3</sub>	
-OCH <sub>2</sub> O-	101.3	5.93 (2H, m)		
5''-OCH <sub>3</sub>	56.5	3.83 (3H, s)	H-6''	
3', 5'-OCH <sub>3</sub>	56.2	3.83 (6H, s)	H-2', 6'	
2 × C=O	170.9			
2 × CH <sub>3</sub>	21.0	2.08 (3H, s) 2.07 (3H, s)		H-1, H-4, CH <sub>3</sub>

Table 13. The  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR data for compound 9 (500M Hz,  $\text{CDCl}_3$ )

Position	$\delta_{\text{C}}$	$\delta_{\text{H}}$ (J, Hz)	H-H COSY	HMBC
1	60.5	3.80 (1H, dd, 4.1, 11.4)	H-2	H-6
2	44.1	3.53 (1H, dd, 4.1, 11.4)	H-1, H-6	H-1, H-4, H-5, H-6
3	44.1	1.85 (1H, m)	H-4, H-5	H-1, H-4, H-5, H-6
4	60.5	1.85 (1H, m)	H-3	H-5
5	36.3	3.80 (1H, dd, 4.1, 11.4)	H-3	H-4, H-2', H-6'
6	35.9	3.53 (1H, dd, 4.1, 11.4)	H-3	H-4, H-2', H-6'
		2.75 (1H, dd, 8.3, 13.4)	H-2	H-1, H-2'', H-6''
		2.62 (1H, dd, 5.6, 13.4)		H-5, H-5'
		2.75 (1H, dd, 8.3, 13.4)		H-5, H-6'
		2.62 (1H, dd, 5.6, 13.7)		H-2', H-5', H-6', -OCH <sub>2</sub> O-
1'	134.2	6.64 (1H, d, 1.2)	H-6'	
2'	109.3			
3'	147.6			
4'	145.8			
5'	108.1	6.72 (1H, d, 7.8)	H-6'	
6'	121.8	6.61 (1H, dd, 1.2, 7.8)	H-2', H-5'	
1''	135.1			
2''	103.0	6.34 (1H, br. s)	H-6''	
3''	148.8			
4''	133.4			
5''	143.4			
6''	108.2	6.31 (1H, br. s)	H-2'', 5''-OCH <sub>3</sub>	
2 × -OCH <sub>2</sub> O-	100.8			
	101.2	5.93 (4H, s)		
5''-OCH <sub>3</sub>	56.6	3.87 (3H, s)	H-6''	