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Table S2 ^{13}C-NMR data of diterpenoid alkaloids.

Carbon	**1**[25]	**2**[25]	**3**[25]	**4**[25]	**5**[26]	**6**[27]	**7**[28]	**8**[28]	**9**[29]	**10**[30]	**11**[30]	**12**[31]	**13**[31]
1	78.6	85.5	85.8	86.2	86.1	67.3	77.1	83.8	82.4	77.3	77.3	77.4	77.5
2	29.6	27.9	28.3	29.8	26.6	37.0	25.9	25.8	26.4	26.4	26.4	26.4	26.5
3	34.6	37.2	36.7	35.8	28.7	75.0	28.6	28.9	29.2	28.8	28.8	28.9	29.8
4	36.2	36.0	35.8	36.6	36.7	79.6	33.7	33.9	38.4	33.9	33.9	34.1	34.7
5	41.3	45.1	44.8	45.6	45.4	41.5	44.5	49.6	50.2	44.7	44.7	44.8	46.1
6	26.0	26.1	27.3	28.4	29.4	24.3	81.4	80.8	81.1	81.4	81.4	81.3	82.4
7	45.2	46.0	46.7	45.9	46.9	45.9	92.8	93.6	92.0	91.7	91.8	91.9	92.8
8	72.4	83.0	77.7	77.9	74.2	74.0	80.4	81.6	83.5	81.6	81.4	81.7	82.6
9	56.1	55.4	44.3	45.5	45.3	77.1	47.9	38.6	48.0	50.2	50.4	50.4	51.0
10	81.1	46.2	38.2	40.7	45.3	45.0	83.1	47.9	39.7	83.2	83.2	83.4	83.0
11	53.8	50.2	49.0	50.2	48.9	53.6	54.6	49.3	49.9	55.3	55.3	55.5	55.8
12	37.7	25.4	26.5	26.4	29.9	26.3	37.8	27.1	28.3	35.3	35.6	35.5	34.9
13	38.1	43.8	40.9	39.2	37.0	35.9	40.1	40.1	34.2	37.4	37.1	37.5	36.6
14	74.1	216.5	75.0	75.2	76.6	89.5	82.4	83.7	83.3	74.2	74.8	74.3	74.3
15	40.1	29.2	29.6	30.4	41.4	42.8	37.8	37.0	33.9	38.8	38.7	39.1	38.5
16	81.6	86.4	81.3	82.7	82.0	82.8	71.7	72.1	81.7	81.2	81.1	81.7	81.3
17	64.4	64.2	61.1	62.9	62.8	60.9	64.7	64.8	64.4	64.6	64.7	64.8	64.4
19	50.0	49.6	51.0	49.5	50.3	56.0	50.6	50.7	50.5	50.5	50.6	50.7	51.0
21	49.7	48.8	49.3	48.8	49.6	47.6	50.3	50.6	50.3	50.4	50.4	50.6	50.8
22	13.6	13.6	12.9	13.5	13.6	13.0	13.9	13.9	13.8	13.8	13.9	14.0	14.0
1-OMe	56.0	56.1	56.1	56.3	56.5	–	55.7	55.9	55.8	55.6	55.6	55.8	55.8
14-OMe	–	–	–	–	–	57.2	58.0	57.9	57.7	–	–	–	–
16-OMe	56.4	56.4	56.6	56.5	55.8	55.4	–	–	56.2	55.9	55.9	55.9	55.9
8-OEt	–	–	56.3	55.9	–	–	–	–	–	–	–	–	–
	–	–	16.0	16.1	–	–	–	–	–	–	–	–	–
6-OAc	–	–	–	–	–	–	170.2	170.3	170.4	170.4	170.4	170.5	–
	–	–	–	–	–	–	21.7	21.6	21.6	21.6	21.7	21.8	–
OCH_2O	–	–	–	–	–	–	93.9	93.7	93.5	93.8	94.0	94.0	93.5

3: 14-OAc: 170.8, 21.2.

5: 14-OVer: 166.2 (OCO), 123.0 (C-1'), 112.0 (C-2'), 148.6 (C-3'), 152.8 (C-4'), 110.3 (C-5'), 123.5 (C-6'), 56.0 (3'-OCH_3), 56.0 (4'-OCH_3).

10: 14-OiBu: 177.2 (C-1'), 34.1 (C-2'), 18.8 (C-3'), 18.9 (C-4').

11: OBz: 166.7 (COO), 130.6 (C-1'), 129.8 (C-2',6'), 128.2 (C-3',5'), 132.6(C-4').

12: OMeBu: 177.0 (C-1'), 41.2 (C-2'), 26.6 (C-3'), 11.6 (C-4'), 16.5 (C-5').

Table S2 (*Contd.*)

Carbon	**14**[30]	**15**[30]	**16**[30]	**17**[32]	**18**[33]	**19**[33]	**20**[33]	**21**[34]	**22**[33]	**23**[37]	**24**[20]	**27**[27]	**28**[33]	**29**[33]
1	76.9	77.1	76.9	83.9	71.7	70.9	69.7	80.8	70.9	72.0	72.6	84.6	69.5	207.4
2	25.4	25.7	25.9	26.8	41.8	39.5	40.8	23.9	131.2	29.3	29.4	23.1	39.3	116.2
3	28.4	28.8	29.2	31.2	72.7	71.0	75.0	39.4	136.1	30.5	24.0	20.1	48.8	144.1
4	33.3	34.2	34.1	81.3	72.8	70.0	78.0	70.3	70.2	37.5	33,7	209.6	213.7	71.4
5	44.7	46.3	52.0	54.3	53.2	50.5	50.3	48.3	56.2	44.9	40.4	54.3	60.8	58.1
6	80.5	81.5	217.4	90.1	89.5	90.0	91.8	23.9	90.2	90.4	37.3	35.5	92.9	89.9
7	92.7	93.5	91.4	88.6	87.4	87.5	86.9	75.2	87.1	87.7	86.2	81.9	87.7	87.7

8	87.0	87.6	86.2	77.6	78.2	78.4	78.1	80.1	78.6	78.5	77.4	76.9	79.2	78.3
9	58.2	58.3	60.0	43.4	43.6	43.2	43.5	49.9	43.6	43.3	47.0	78.1	44.2	43.3
10	79.4	79.9	79.2	46.0	44.8	43.7	45.0	81.3	44.5	43.8	43.3	48.6	48.0	39.4
11	54.7	55.2	50.8	50.7	50.7	49.8	52.5	57.1	50.4	49.3	49.2	52.4	53.0	58.2
12	36.1	35.9	36.1	28.5	28.5	29.8	28.4	44.0	28.9	27.2	29.9	24.5	28.0	31.9
13	45.3	45.4	45.3	38.3	38.4	37.9	38.3	36.1	38.4	37.6	37.1	37.5	39.0	38.4
14	214.3	213.7	210.7	82.7	84.1	84.2	84.1	88.5	84.4	84.5	85.0	89.8	83.6	83.6
15	31.7	32.4	31.3	33.3	33.5	33.3	33.7	39.4	33.6	33.5	36.4	37.1	34.3	33.3
16	83.7	84.2	83.4	83.0	82.9	82.9	82.8	83.9	82.9	82.9	82.8	82.7	83.1	83.0
17	65.4	65.4	64.5	63.8	63.7	64.7	63.6	63.4	64.5	66.0	65.0	64.1	65.4	63.3
19	50.7	51.0	50.5	55.5	52.2	58.6	57.4	59.6	56.2	57.2	53.6	63.9	51.2	54.6
21	50.3	50.7	50.2	50.5	50.2	49.8	50.4	50.1	49.8	50.8	50.6	46.8	50.4	50.5
22	14.0	14.2	13.9	14.0	14.0	13.4	13.9	11.4	13.6	13.5	13.9	14.8	14.5	13.9
1-OMe	55.7	55.9	56.0	56.1	–	–	–	56.5	–	–	–	55.2	–	–
6-OMe	–	–	–	58.3	58.3	58.0	58.7	–	58.1	57.2	–	–	59.3	58.2
8-OMe	–	–	–	–	–	–	–	–	–	56.3	–	–	–	–
14-OMe	–	–	–	57.8	57.8	57.6	57.8	58.2	57.7	57.3	57.8	58.3	57.9	57.8
16-OMe	56.1	56.2	56.2	56.3	56.3	56.2	56.3	56.5	56.3	59.1	56.4	56.3	56.3	56.3
6-OAc	170.6	–	–	–	–	–	–	–	–	–	–	–	–	–
	21.6	–	–	–	–	–	–	–	–	–	–	–	–	–
8-OAc	–	–	–	169.8	–	–	–	–	–	–	–	–	–	–
	–	–	–	22.2	–	–	–	–	–	–	–	–	–	–
OCH_2O	94.8	94.4	96.6	–	–	–	–	–	–	–	–	–	–	–

Table S2 (*Contd.*)

Carbon	**30**[3]	**31**[3]	**32**[38]	**33**[38]	**34**[39]	**35**[40]	**36**[41]	**37**[42]	**38**[43]	**39**[44]	**40**[44]	**41**[44]	**42**[40]	**43**[40]
1	86.0	86.0	85.7	85.6	85.7	85.8	65.4	215.5	83.9	83.2	82.3	82.6	86.0	84.9
2	26.7	27.0	25.5	25.5	26.9	26.8	29.2	41.4	26.0	25.6	23.9	24.5	25.6	25.3
3	37.8	36.3	37.8	37.7	37.7	37.4	32.6	40.7	32.4	24.5	24.4	24.8	32.4	32.8
4	34.5	34.3	34.4	34.3	34.3	34.3	32.4	34.6	45.5	53.0	51.9	52.5	37.4	38.5
5	45.3	50.5	45.1	42.1	45.0	50.1	44.1	54.7	46.3	81.2	80.3	80.4	45.9	45.8
6	25.4	24.5	26.7	26.9	25.5	24.4	23.4	26.0	25.8	35.7	35.6	35.7	24.8	24.6
7	50.8	40.8	50.9	50.8	50.8	39.8	43.0	39.8	53.1	53.0	53.6	53.6	45.7	45.6
8	74.0	77.6	86.4	86.6	86.9	77.8	72.4	73.7	73.1	72.7	73.7	73.8	72.7	78.0
9	46.6	45.1	42.4	45.0	42.3	43.1	45.0	46.7	44.4	46.4	44.5	46.5	46.8	47.1
10	45.3	43.2	41.7	41.5	41.6	45.1	37.8	39.1	45.3	39.9	38.4	36.5	46.0	45.3
11	49.0	50.5	49.1	49.0	48.9	51.0	47.9	60.6	48.1	49.8	50.8	50.2	48.7	48.8
12	28.6	29.1	29.6	28.7	28.8	29.0	26.4	31.3	28.0	27.0	28.1	35.7	27.6	27.9
13	36.6	38.1	39.0	39.3	38.9	38.0	42.4	46.1	35.6	37.6	37.0	76.8	37.6	37.9
14	76.6	75.8	75.6	75.7	75.5	75.8	73.9	75.7	77.0	75.6	76.7	80.7	75.5	75.0
15	41.0	37.8	37.8	37.8	37.7	35.4	44.1	41.7	40.1	38.2	40.9	41.3	38.2	38.7
16	81.8	83.4	83.0	83.0	82.9	83.3	71.2	81.8	82.3	82.3	81.8	83.6	82.1	82.4
17	61.9	61.3	61.4	61.6	61.6	61.4	61.2	64.7	61.3	64.5	64.2	64.3	62.7	62.6
18	26.4	26.5	26.3	26.3	26.3	26.5	24.2	25.4	22.9	76.7	76.6	76.6	70.0	68.3

19	56.7	56.7	56.6	56.6	56.5	56.8	55.1	57.6	168.6	163.7	163.1	163.5	52.6	52.0
21	49.3	49.2	49.1	49.2	49.2	50.4	46.8	48.8	–	–	–	–	49.4	49.3
22	13.6	13.5	13.4	13.4	13.5	13.4	11.3	13.4	–	–	–	–	13.6	13.2
1-OMe	56.3	56.2	56.1	56.2	56.5	56.3	–	–	56.1	56.3	56.2	56.5	56.4	56.2
8-OMe	–	–	–	–	–	48.1	–	–	–	–	–	–	–	–
14-OMe	–	–	–	–	–	–	–	–	–	–	–	–	–	57.7
16-OMe	56.0	56.2	56.5	56.5	56.2	56.3	–	56.3	56.3	56.7	56.4	58.5	56.5	56.3
18-OMe	–	–	–	–	–	–	–	–	–	60.0	60.0	60.0	–	–
14-OAc	–	171.4	171.5	171.6	171.5	171.6	–	–	170.8	–	–	–	171.2	–
	–	21.4	21.4	21.6	21.4	21.4	–	–	21.4	–	–	–	20.9	–
	14-OVer	–	–	8-OVer	8-OBz	–	–	–	–	–	14-OAni	14-OAni	–	–
COO	166.3	–	–	164.6	164.8	–	–	–	–	–	166.3	167.0	–	–
1'	123.0	–	–	123.8	131.4	–	–	–	–	–	123.0	122.6	–	–
2'	112.0	–	–	110.1	129.3	–	–	–	–	–	131.7	131.9	–	–
3'	148.5	–	–	148.5	128.3	–	–	–	–	–	113.9	113.9	–	–
4'	152.8	–	–	152.7	132.7	–	–	–	–	–	163.4	163.6	–	–
5'	110.3	–	–	111.5	128.3	–	–	–	–	–	113.9	113.9	–	–
6'	123.5	–	–	123.6	129.3	–	–	–	–	–	131.7	131.9	–	–
3'-OMe	55.9	–	–	55.9	–	–	–	–	–	–	–	–	–	–
4'-OMe	56.0	–	–	55.9	–	–	–	–	–	–	55.6	55.6	–	–

43: 8-OEt: 55.6, 16.1.

Table S2 (*Contd.*)

Carbon	**44**[2]	**45**[3]	**46**[42]	**47**[45]	**48**[46]	**49**[47]	**50**[48]	**51**[49]	**52**[50]	**53**[51]	**54**[52]	**55**[51]	**56**[51]	**57**[44]
1	81.0	72.1	72.2	72..2	82.9	86.0	85.3	83.8	81.0	82.1	78.6	83.6	212.2	81.3
2	24.0	26.7	27.8	26.6	25.0	26.2	26.2	26.1	31.8	25.0	26.0	26.2	40.9	25.1
3	24.8	29.6	26.7	29.7	31.9	46.2	45.7	28.3	68.9	26.4	32.4	28.4	31.7	27.9
4	41.0	36.9	37.3	37.2	37.6	41.0	40.7	41.0	44.8	41.3	38.4	41.1	41.2	40.5
5	39.0	41.8	43.5	41.4	45.7	37.7	46.0	84.6	85.3	82.8	42.1	83.8	88.8	83.4
6	25.9	25.1	25.2	24.8	24.0	23.8	22.8	34.6	35.5	34.8	24.1	33.4	34.2	35.1
7	39.2	45.1	45.8	44.6	47.7	46.4	39.5	44.8	45.2	51.7	39.4	41.2	47.1	52.9
8	78.7	74.1	75.0	85.8	77.2	73.1	78.1	73.5	72.8	74.2	77.0	74.3	74.6	73.7
9	41.7	46.6	44.8	41.0	45.1	47.9	46.0	47.0	47.5	45.7	55.5	46.1	45.9	46.9
10	43.0	44.0	43.6	43.7	45.4	45.5	48.0	40.9	36.2	35.8	81.1	36.7	31.6	36.6
11	49.9	48.7	49.0	48.8	48.1	48.0	48.1	50.5	50.4	50.7	54.8	50.5	63.5	50.1
12	30.4	28.4	29.3	28.6	27.1	27.5	28.8	28.2	35.3	34.9	39.1	41.0	39.3	35.1
13	39.9	39.9	37.4	40.4	37.5	47.2	38.3	39.3	77.4	76.1	38.6	77.3	75.9	77.1
14	84.7	75.7	77.2	75.1	74.8	75.8	75.1	75.1	79.6	79.8	73.3	81.2	80.0	80.5
15	36.3	42.3	42.6	38.5	32.2	38.2	33.5	40.2	41.6	41.8	35.3	130.1	43.0	41.4
16	83.5	81.8	82.3	82.2	81.8	82.4	82.2	74.9	83.5	83.0	81.8	135.0	83.2	83.7
17	67.7	63.8	63.8	63.6	59.9	59.4	58.7	63.4	62.5	58.3	63.3	63.5	64.6	59.9
18	66.6	70.0	79.2	78.8	78.2	79.2	79.4	78.9	72.8	78.0	79.5	79.1	77.5	78.0
19	55.8	56.3	56.6	56.4	43.7	56.0	55.6	55.4	48.0	50.4	52.9	55.7	56.5	45.4
21	49.6	48.4	48.6	48.4	162.4	44.6	44.2	49.1	49.2	–	49.4	49.0	48.5	162.1

22	13.8	13.0	13.1	12.9	–	14.5	14.2	13.6	13.5	–	13.6	13.4	13.5	–
1-OMe	56.3	–	–	–	55.7	56.4	56.1	56.5	56.6	55.7	56.0	56.4	–	55.6
8-OMe	48.9	–	–	–	48.5	–	–	–	–	–	–	–	–	–
16-OMe	56.4	56.3	56.2	56.0	56.5	56.7	58.7	–	58.3	58.1	56.4	–	58.3	58.6
18-OMe	–	–	59.5	59.3	59.5	59.1	59.2	59.6	59.5	59.4	59.5	59.5	59.5	59.9
	–	18-OVer	–	8-OVer	–	–	–	16-OAni	14-OAni	14-OAni	–	14-OAni	14-OAni	14-OAni
COO	–	166.3	–	165.4	–	–	–	165.3	166.8	166.4	–	167.2	166.2	167.1
1'	–	122.6	–	124.1	–	–	–	122.7	122.4	122.4	–	121.8	122.5	122.5
2'	–	112.0	–	110.2	–	–	–	131.5	131.7	131.7	–	131.7	131.8	131.9
3'	–	148.7	–	152.8	–	–	–	113.7	113.7	113.5	–	113.8	113.6	114.0
4'	–	153.1	–	148.6	–	–	–	163.4	163.3	163.2	–	163.8	163.4	163.7
5'	–	110.3	–	111.9	–	–	–	113.7	113.7	113.5	–	113.8	113.6	114.0
6'	–	123.4	–	123.4	–	–	–	131.5	131.7	131.7	–	131.7	131.8	131.9
3'-OMe	–	56.0	–	55.9	–	–	–	–	–	–	–	–	–	–
4'-OMe	–	56.0	–	55.9	–	–	–	55.4	55.4	55.2	55.4	–	55.6	55.6

46: 14-OCin: 134.4 (C-1'), 128.3 (C-2'), 129.0 (C-3'), 130.5 (C-4'), 129.0 (C-5'), 128.3 (C-6'), 145.4 (C-7'), 118.0 (C-8'), 166.6 (C-9').

49: 19-CH_2COCH_3: 29.1 (C-1'), 208.2 (C-2'), 30.6 (C-3').

50: 19-CH_2COCH_3: 28.2 (C-1'), 208.1 (C-2'), 30.5 (C-3').

52: 3-OAc: 163.4, 27.8.

Table S2 (*Contd.*)

Carbon	**58**[53]	**59**[44]	**60**[54]	**61**[54]	**62**[55]	**63**[55]	**64**[55]	**65**[55]	**66**[56]	**67**[55]	**68**[55]	**69**[55]	**70**[2]	**71**[2]
1	82.8	80.8	85.9	85.9	85.5	85.5	85.7	85.4	85.6	72.1	85.6	83.2	83.6	85.4
2	33.6	23.1	26.1	26.1	26.4	26.2	25.8	26.0	26.4	29.7	26.2	25.0	24.9	26.3
3	25.5	26.0	32.8	32.8	32.9	32.9	32.8	32.8	32.7	30.1	33.0	28.7	27.8	32.3
4	48.6	46.3	38.6	38.6	38.1	38.2	38.4	38.1	38.0	36.9	38.3	37.8	49.2	38.1
5	38.4	79.5	46.8	46.8	45.9	46.1	46.0	46.2	45.8	41.7	46.0	43.1	42.5	45.5
6	24.6	35.3	24.9	24.9	24.4	25.3	25.5	24.1	24.6	24.3	24.0	24.5	26.5	24.4
7	45.1	53.7	46.1	46.1	41.1	46.4	43.0	40.8	42.9	43.9	42.7	47.3	55.1	40.2
8	72.3	73.2	73.4	73.4	76.9	73.7	92.1	78.0	77.4	79.0	74.4	78.8	73.7	77.7
9	53.8	45.7	46.1	46.1	43.2	45.5	52.6	45.4	41.1	45.4	46.6	45.2	45.5	43.5
10	38.3	35.5	45.6	45.6	38.3	35.5	41.7	38.6	36.2	40.0	46.0	45.2	46.0	38.5
11	51.2	51.6	49.5	49.5	49.2	49.0	49.0	48.9	49.2	49.1	48.7	49.3	49.9	49.5
12	27.8	35.8	28.5	28.4	29.1	28.6	24.9	28.7	29.5	26.7	33.3	28.7	30.4	29.6
13	43.3	76.5	40.7	40.6	45.2	45.0	46.6	45.8	45.8	40.2	39.2	40.1	38.5	45.7
14	75.0	79.8	75.2	75.2	75.8	77.0	215.1	75.1	83.8	75.7	74.7	75.5	85.2	83.9
15	39.5	41.5	39.9	39.9	36.3	41.0	31.9	34.0	39.3	38.1	132.0	36.3	42.1	35.6
16	81.5	83.0	75.1	74.5	83.5	81.7	86.1	82.4	83.3	83.2	130.0	82.7	83.4	83.8
17	68.1	76.9	62.7	62.7	61.5	62.1	63.2	62.3	61.3	63.4	63.0	57.5	63.0	61.6
18	73.4	75.8	79.5	79.5	70.9	70.8	70.4	70.8	70.8	70.5	71.1	70.8	67.6	69.9
19	179.2	136.5	53.1	53.1	52.8	52.8	52.7	52.7	53.0	56.4	53.0	48.2	162.7	53.3
21	56.3	–	48.7	48.7	49.3	49.4	49.4	49.3	–	48.5	49.5	–	–	49.3
22	14.0	–	13.7	13.7	13.6	13.7	13.7	13.6	–	13.1	13.6	–	–	13.4
1-OMe	55.5	56.6	56.3	56.3	56.4	56.5	56.4	56.4	56.3	–	56.5	–	56.4	56.5

8-OMe	–	48.2	–	–	–	–	–	–	–	–	–	–	–	48.3
14-OMe					–	–	–	–	57.7	–	–	–	57.9	57.8
16-OMe	56.9	58.6	–	–	56.4	56.3	56.4	56.4	56.3	56.7	–	56.0	56.4	56.5
18-OMe	59.8	60.0	59.9	59.5	–	–	–	–	–	–	–	–	–	–
14-OAc	–	–	–	–	171.5	171.5	–	–	–	–	–	–	–	–
	–	–	–	–	21.5	21.5	–	–	–	–	–	–	–	–
	–	14-OAni	14-OBz	14-OAni	–	–	–	–	–	–	–	–	–	–
COO	–	166.7	165.6	165.3	–	–	–	–	–	–	–	–	–	–
1'	–	122.4	130.4	122.7	–	–	–	–	–	–	–	–	–	–
2'	–	132.0	129.5	131.5	–	–	–	–	–	–	–	–	–	–
3'	–	114.0	128.5	113.7	–	–	–	–	–	–	–	–	–	–
4'	–	163.7	133.1	163.7	–	–	–	–	–	–	–	–	–	–
5'	–	114.0	128.5	113.7	–	–	–	–	–	–	–	–	–	–
6'	–	132.0	129.5	131.5	–	–	–	–	–	–	–	–	–	–
4'-OMe	–	55.6	–	55.5										
1'	–	–	–	–	114.9	114.9	114.8	114.8	114.7	114.8	1145.0	114.8	110.7	110.8
2'	–	–	–	–	141.8	141.8	141.9	141.7	141.5	141.9	141.9	141.9	153.1	150.7
3'	–	–	–	–	120.5	120.6	120.7	120.4	120.3	120.7	120.6	120.6	117.7	116.9
4'	–	–	–	–	134.8	134.9	135.0	134.8	134.6	135.1	134.9	135.0	135.1	134.3
5'	–	–	–	–	122.5	122.5	122.6	122.5	122.3	122.7	122.6	122.6	116.1	116.4
6'	–	–	–	–	130.6	130.6	130.6	130.5	130.3	130.5	130.6	130.5	131.9	131.1
7'	–	–	–	–	168.3	168.3	168.3	168.2	167.9	168.5	168.3	168.4	168.7	168.1
8'	–	–	–	–	169.1	169.2	169.2	169.1	168.7	169.2	169.3	169.2	–	–
9'	–	–	–	–	25.6	25.7	25.7	25.5	25.4	25.7	25.7	25.7	–	–

62: 8-OEt: 55.7, 16.4.

Table S2 (*Contd.*)

Carbon	**72**[58]	**73**[58]	**74**[58]	**75**[58]	**76**[47]	**77**[59]	**79**[61]	**80**[61]	**81**[48]	**82**[3]	**83**[39]	**84**[3]	**85**[62]	**86**[62]
1	82.0	82.0	71.8	82.1	85.4	82.3	83.6	83.4	82.3	83.5	85.6	72.0	72.4	72.4
2	22.0	22.0	28.4	22.0	26.0	33.6	32.2	32.3	33.6	33.0	25.9	29.2	37.9	37.9
3	25.2	25.2	25.8	27.6	34.7	71.8	72.1	72.0	71.7	72.0	34.5	29.7	71.9	72.1
4	38.5	38.5	38.5	38.9	39.5	43.3	43.5	43.6	43.2	42.9	37.9	37.8	44.2	44.2
5	39.9	40.0	40.2	40.8	49.1	48.8	45.7	45.5	41.0	48.6	50.2	45.8	46.3	46.0
6	24.6	24.9	25.0	81.7	83.1	83.4	81.1	81.0	83.2	82.7	83.0	72.9	82.9	83.1
7	41.3	41.2	41.3	43.5	49.1	47.3	51.3	51.1	49.0	45.4	47.1	55.8	52.2	52.8
8	78.3	78.4	78.3	74.2	85.0	85.8	83.5	83.2	85.7	78.3	84.4	75.6	74.0	74.5
9	43.7	44.1	44.2	45.4	45.1	44.8	43.4	43.2	45.1	45.1	49.3	45.8	48.0	46.0
10	40.6	3.0	43.9	54.8	41.1	40.9	40.3	40.1	47.5	45.1	45.1	43.7	43.7	43.0
11	50.3	50.5	49.8	50.2	50.2	50.4	49.5	49.4	50.3	50.9	49.7	50.1	49.5	49.7
12	37.2	29.4	30.1	36.9	35.7	35.5	34.6	34.5	35.3	28.7	28.1	29.3	29.7	29.7
13	75.4	39.5	39.3	75.6	74.8	74.8	74.3	74.2	74.8	38.4	39.2	37.8	40.3	36.6
14	80.2	76.6	76.8	80.1	78.9	78.7	78.7	78.8	78.6	75.9	74.8	76.6	75.6	77.0
15	81.6	79.2	79.2	43.3	39.1	39.7	38.2	38.0	39.7	36.5	35.0	42.0	42.2	42.6
16	92.6	91.7	91.6	83.7	83.7	83.5	82.8	82.6	83.6	83.2	81.9	82.1	82.4	81.9

17	63.7	63.6	64.4	63.9	61.9	61.7	57.6	57.5	61.7	60.8	62.5	63.3	63.1	62.9
18	78.4	78.5	78.8	79.3	80.3	77.1	74.3	74.5	77.1	76.8	80.4	80.4	79.7	79.8
19	57.7	57.7	57.3	58.9	53.6	47.6	42.6	42.9	47.5	48.5	53.7	56.9	48.1	48.1
21	50.2	50.1	50.1	51.5	49.3	48.9	–	–	48.9	47.7	49.2	48.2	48.1	48.2
22	10.8	10.7	10.7	10.9	13.4	13.5	–	–	13.4	13.3	13.3	13.0	13.0	12.9
1-OMe	56.0	56.0	–	55.9	56.2	55.9	57.4	57.2	56.0	55.7	56.1	–	–	–
6-OMe	–	–	–	58.2	58.7	58.1	55.8	55.5	58.0	58.6	57.6	–	57.8	57.9
16-OMe	61.3	57.6	57.5	59.3	58.0	59.3	56.6	56.3	58.8	56.3	56.5	56.2	56.3	56.1
18-OMe	59.4	59.4	59.4	59.1	59.1	58.9	58.4	58.2	59.2	59.1	59.1	59.1	59.1	59.1
3-OAc	–	–	–	–	–	–	170.1	170.3	–	–	–	–	–	–
	–	–	–	–	–	–	21.0	21.1	–	–	–	–	–	–
8-OAc	–	–	–	–	–	169.9	172.1	172.2	–	–	–	–	–	–
	–	–	–	–	–	22.4	21.3	21.3	–	–	–	–	–	–
14-OAc	–	–	–	–	–	–	–	–	–	–	–	–	–	170.3
	–	–	–	–	–	–	–	–	–	–	–	–	–	21.3
	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	–	14-OBz	14-OAni	8-OAni	14-OAni	8-OAni	14-OVer	–	–
COO	166.6	166.3	166.3	166.5	166.3	–	166.8	166.4	166.6	166.2	165.4	165.9	–	–
1'	131.5	131.6	131.6	131.5	131.2	–	130.0	130.1	122.2	124.2	124.2	122.6	–	–
2'	130.6	130.6	130.6	130.6	129.7	–	129.8	129.8	131.8	131.5	131.5	112.1	–	–
3'	129.2	129.2	129.2	129.2	128.0	–	129.4	118.8	113.1	113.5	113.5	148.5	–	–
4'	133.6	133.6	133.6	133.8	133.0	–	132.6	162.9	163.1	163.1	163.1	152.9	–	–
5'	129.2	129.2	129.2	129.2	128.0	–	129.4	118.8	113.1	113.5	113.5	110.2	–	–
6'	130.6	130.6	130.6	130.6	129.7	–	129.8	129.8	131.8	131.5	131.5	123.5	–	–
3'-OMe	–	–	–	–	–	–	–	–	–	–	–	55.9	–	–
4'-OMe	–	–	–	–	–	–	–	55.8	55.2	–	55.3	56.0	–	–

76: 8-lip: 172.0 (COO), 34.9 (C-1''), 24.2 (C-2''), 28.9 (C-3''), 29.0 (C-4''), 29.1 (C-5''), 29.3 (C-6''), 29.6 (C-7''), 27.2 (C-8''), 130.3 (C-9''), 128.5 (C-10''), 25.5 (C-11''), 127.8 (C-12''), 130.0 (C-13''), 26.5 (C-14''), 29.7 (C-15''), 31.5 (C-16''), 22.0 (C-17''), 14.1 (C-18'')**.**

77: 14-OCin: 134.3 (C-1'), 129.1 (C-2'), 128.2 (C-3'), 130.6 (C-4'), 128.2 (C-5'),

129.1 (C-6') , 66.7 (C-7'), 118.1 (C-8'), 145.6 (C-9').

81: 14-OAni: 165.1 (COO), 122.8 (C-1''), 131.2 (C-2''), 113.3 (C-3''), 162.8 (C-4''), 113.3 (C-5''), 131.2 (C-6''), 55.3 (C4''-OMe).

82: 8-OEt: 55.9, 15.5.

Table S2 (*Contd.*)

Carbon	**87**[63]	**88**[63]	**89**[64]	**90**[64]	**91**[64]	**92**[65]	**93**[65]	**94**[63]	**95**[64]	**96**[48]	**97**[47]	**98**[63]	**99**[63]	**100**[58]
1	71.1	72.8	72.3	72.0	72.2	72.9	72.4	73.8	72.2	71.8	85.6	71.2	70.9	78.0
2	27.4	29.5	30.1	29.8	29.8	38.6	37.9	30.5	30.0	37.8	26.0	31.6	31.4	30.9
3	28.7	29.0	30.1	29.9	30.1	71.4	70.7	29.7	29.5	71.2	32.9	29.6	30.1	70.2
4	38.4	39.1	38.0	38.5	38.1	42.6	43.8	40.0	38.2	43.3	38.7	39.8	38.9	43.7
5	43.5	45.6	46.7	46.4	46.6	45.8	46.7	47.1	44..5	38.8	51.1	42.2	41.3	40.3
6	82.5	72.9	73.8	73.6	73.4	83.6	72.0	73.8	83.6	83.0	82.4	84.2	84.8	82.8
7	49.5	58.2	50.5	50.8	50.3	53.4	54.3	57.7	48.0	47.7	46.4	53.8	49.6	49.8
8	84.1	75.5	86.5	86.6	86.0	73.9	73.2	75.9	85.8	85.1	46.3	73.7	85.4	82.7
9	45.7	45.4	43.4	43.5	43.5	45.3	45.2	45.8	43.9	43.3	49.8	57.8	56.6	53.8
10	43.5	44.7	43.6	43.5	43.3	44.6	44.1	44.8	39.5	45.5	37.4	83.5	83.3	78.5

11	50.5	51.3	50.5	51.0	50.4	50.6	49.9	51.2	49.7	49.3	48.6	55.6	55.9	57.1
12	28.9	30.4	29.6	29.6	29.5	30.1	29.5	30.7	36.2	35.9	28.3	42.2	41.8	46.6
13	39.7	39.4	39.4	39.1	39.2	38.7	37.5	39.6	74.7	74.3	74.4	42.4	42.3	76.1
14	74.3	77.5	76.1	75.9	75.8	77.5	76.8	78.0	78.9	78.4	75.8	75.0	74.1	78.7
15	37.2	42.1	38.6	38.1	38.9	42.6	41.5	42.4	40.6	40.0	37.4	43.9	40.3	42.2
16	80.9	83.9	83.0	83.1	83.0	84.7	82.2	84.2	83.6	83.0	82.4	83.7	83.7	83.0
17	64.6	64.5	63.0	63.3	63.2	62.9	63.0	64.2	63.5	62.6	64.4	64.6	64.2	66.8
18	78.5	80.3	80.9	81.1	80.8	79.8	80.3	70.2	79.9	78.8	78.5	70.2	80.6	77.2
19	56.6	58.8	56.8	57.2	57.0	48.8	48.3	58.2	56.8	47.5	53.9	58.4	58.3	50.2
21	49.7	49.7	48.4	48.7	48.4	48.6	48.3	49.1	48.4	47.9	49.7	49.2	49.5	50.9
22	10.6	11.8	13.0	13.8	13.0	13.5	12.9	13.4	13.0	12.5	13.8	13.4	12.9	11.0
1-OMe	–	–	–	–	–	–	–	–	–	–	56.5	–	–	55.3
6-OMe	58.4	–	58.0	–	–	58.0	–	–	58.0	57.5	57.4	58.4	58.8	58.2
8-OMe							–	–	–	–	–	56.6	–	–
16-OMe	56.6	56.5	59.1	56.9	56.8	56.2	56.2	55.6	59.1	58.7	56.6	–	56.6	59.6
18-OMe	59.1	59.4	59.2	59.4	59.4	58.8	59.1	–	59.2	58.7	59.5	–	59.3	59.0
8-OAc	–	–	–	–	170.0	–	–	–	170.6	169.5	–	–	–	–
	–	–	–	–	21.6	–	–	–	21.6	21.2	–	–	–	–
14-OAc	–	–	171.3	171.3	–	–	–	–	–	–	–	–	–	–
	–	–	21.6	21.5	–	–	–	–	–	–	–	–	–	–
	8-OBz	14-OBz	8-OVer	8-OAni	14-OAni	14-OBz	14-OBz	14-OBz	14-OAni	14-OAni	–	–	8-OBz	14-OBz
COO	165.8	167.7	164.9	166.3	166.1	166.6	166.3	167.8	165.9	165.4	–	–	167.1	166.2
1'	130.6	131.7	123.4	123.3	122.8	130.1	130.1	131.9	122.5	122.0	–	–	131.9	130.9
2'	129.7	130.9	111.9	131.6	131.8	131.7	131.7	130.9	131.8	131.3	–	–	130.9	130.3
3'	128.5	129.4	148.8	113.9	113.9	128.7	128.3	129.4	113.9	113.5	–	–	129.4	129.6
4'	133.2	134.1	153.3	164.0	163.6	133.0	132.8	134.0	163.6	163.2	–	–	134.0	134.2
5'	128.5	129.4	110.4	113.9	113.9	128.7	128.3	129.4	113.9	113.5	–	–	129.4	129.6
6'	129.7	130.9	123.5	131.6	131.8	131.7	130.1	130.9	131.8	131.3	–	–	130.9	130.3
3'-OMe	–	–	56.1	–	–	–	–	–	–	–	–	–	–	–
4'-OMe	–	–	56.2	55.6	55.4	–	–	–	55.5	55.1	–	–	–	–

Table S2 (*Contd.*)

Carbon	**101**[66]	**102**[68]	**103**[69]	**104**[70]	**105**[62]	**107**[71]	**108**[71]	**109**[71]	**110**[58]	**111**[58]	**112**[58]	**113**[58]	**114**[72]	**115**[73]
1	82.4	87.6	70.5	200.6	148.3	86.5	86.2	72.2	81.7	82.0	81.8	81.3	84.1	80.8
2	28.6	29.6	131.8	131.7	131.6	25.8	26.0	29.3	22.0	22.0	22.0	22.2	34.1	31.7
3	32.9	30.9	134.3	147.7	200.9	35.5	35.3	29.4	27.2	27.2	27.2	27.4	72.0	72.1
4	34.5	37.7	39.3	49.4	51.1	39.4	39.4	38.1	38.8	38.7	38.8	38.9	43.7	42.9
5	42.4	42.5	48.5	48.6	49.0	48.6	48.7	44.8	44.2	43.9	44.3	42.6	49.4	51.2
6	73.4	82.0	82.3	81.8	81.8	82.3	82.4	83.1	71.3	71.9	71.3	82.9	83.6	83.6
7	56.1	52.6	48.5	53.5	53.2	52.6	52.6	52.2	44.7	51.5	45.2	45.5	44.8	45.1
8	79.1	76.7	80.1	74.6	74.3	50.5	72.5	72.2	83.4	79.0	83.1	91.2	77.4	91.5
9	44.5	45.4	54.2	40.9	47.9	49.4	50.4	48.3	45.2	45.6	45.2	44.1	48.6	43.7
10	84.6	42.1	41.7	36.4	41.7	45.5	45.6	40.3	43.8	44.2	43.8	43.1	41.7	40.7
11	48.2	51.9	48.3	50.9	49.5	50.3	50.3	49.5	51.6	51.4	51.6	51.0	51.2	49.1

12	29.7	26.6	26.1	31.1	30.8	28.4	28.3	29.9	29.5	29.8	29.9	30.6	33.0	35.0
13	38.5	37.7	47.1	45.7	40.2	38.0	37.9	44.1	38.2	39.7	38.3	39.5	38.7	74.1
14	75.4	83.7	216.2	76.8	75.8	75.6	75.6	76.0	76.5	76.7	76.5	75.8	78.4	78.8
15	32.9	33.0	40.8	42.3	42.3	38.9	38.8	42.8	75.1	79.2	75.7	76.8	211.7	78.9
16	81.9	82.6	87.1	81.9	82.0	82.0	82.1	81.8	93.5	91.1	93.6	89.8	86.1	89.8
17	64.7	69.7	64.6	60.7	61.2	62.6	62.7	63.8	63.6	63.4	63.6	62.4	61.7	55.7
18	25.8	65.7	76.0	72.0	72.2	80.7	80.8	80.3	79.3	79.2	79.2	78.8	76.8	73.4
19	53.4	56.4	52.2	51.3	51.5	54.0	53.8	57.0	58.6	59.0	58.2	58.1	49.1	41.4
21	49.2	56.4	48.6	48.5	48.7	48.6	49.3	48.3	50.2	50.2	50.2	50.6	47.3	–
22	13.6	179.8	12.9	12.9	13.0	13.6	13.8	13.1	10.9	10.9	10.9	10.7	13.4	–
1-OMe	57.5	56.1	–	–	–	56.2	56.2	–	55.7	55.7	55.7	55.7	56.2	55.8
6-OMe	–	57.9	57.2	57.9	58.0	57.4	57.3	57.9	–	–	–	59.0	59.2	58.1
8-OMe	48.3	–	–	–	–	–	–	–	50.6	–	–	–	–	–
14-OMe	–	56.4	56.0	–	–	–	–	–	–	–	–	–	–	–
16-OMe	56.4	56.3	59.3	56.0	56.4	56.4	56.4	56.3	57.4	57.7	57.5	58.1	57.9	61.1
18-OMe	–	–	–	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	62.4	58.8
8-OAc	–	–	–	–	–	–	–	–	–	–	–	173.1	–	172.1
	–	–	–	–	–	–	–	–	–	–	–	21.7	–	21.3
14-OAc	170.0	–	–	170.0	–	–	–	–	–	–	–	–	–	–
	21.7	–	–	20.8	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz
COO	–	–	–	–	–	–	–	–	166.1	166.2	166.0	165.9	166.1	166.0
1'	–	–	–	–	–	–	–	–	131.5	131.6	131.5	130.9	129.7	129.8
2'	–	–	–	–	–	–	–	–	130.3	130.5	130.3	130.2	130.2	129.6
3'	–	–	–	–	–	–	–	–	129.3	129.2	129.2	129.7	129.4	128.6
4'	–	–	–	–	–	–	–	–	133.8	133.6	133.8	134.2	133.7	133.3
5'	–	–	–	–	–	–	–	–	129.3	129.2	129.2	129.7	129.4	128.6
6'	–	–	–	–	–	–	–	–	130.3	130.5	130.3	130.2	130.2	129.6

115: 3-OAc: 170.3, 21.1.

Table S2 (*Contd.*)

Carbon	**116**[73]	**117**[58]	**118**[58]	**119**[58]	**120**[58]	**121**[74]	**122**[74]	**123**[72]	**124**[61]	**125**[75]	**126**[75]	**127**[75]	**128**[58]	**129**[58]
1	82.6	81.4	77.9	80.6	81.6	82.7	82.6	83.4	84.2	82.5	82.4	82.5	71.8	70.9
2	23.7	22.2	31.7	30.1	22.2	33.9	33.3	33.4	32.0	32.8	33.3	33.4	28.5	27.6
3	29.3	27.4	70.3	70.1	27.3	71.4	71.7	71.4	72.4	72.0	71.9	71.8	27.9	27.1
4	39.2	39.0	43.8	44.2	38.9	43.4	43.0	43.0	43.3	42.8	43.1	43.0	39.0	38.1
5	49.2	43.0	42.0	45.5	42.6	45.3	45.4	46.2	45.6	44.9	46.4	45.7	43.4	42.5
6	83.5	82.4	82.6	82.8	82.6	83.3	83.5	82.3	81.1	84.6	83.3	83.3	82.9	82.0
7	43.9	45.5	45.4	44.3	43.6	42.0	43.0	44.2	52.0	48.6	47.6	42.4	49.4	48.4
8	91.8	90.9	90.3	91.5	83.5	82.0	82.2	92.1	92.1	59.8	78.5	82.3	78.4	77.5
9	43.4	44.0	53.1	42.8	44.9	45.2	45.2	44.6	44.6	47.4	46.4	45.1	45.1	44.7
10	40.6	39.8	78.7	40.3	40.6	41.4	41.5	40.9	41.0	42.6	42.0	41.5	44.0	43.1
11	49.9	51.0	55.3	52.2	51.4	50.6	50.6	50.0	49.7	50.8	50.4	50.6	50.4	49.6
12	35.5	36.8	47.0	36.0	37.4	36.1	36.1	35.6	37.0	35.7	36.1	36.2	30.3	29.6

13	74.1	74.9	75.4	75.1	75.3	74.7	74.7	74.0	75.4	74.6	74.8	74.8	39.4	38.3
14	79.1	79.4	80.1	79.4	79.9	79.5	79.5	78.9	80.2	79.9	79.5	79.2	76.8	75.6
15	79.1	79.3	78.6	79.7	76.5	78.7	78.8	78.8	79.7	82.2	82.1	77.7	79.0	78.0
16	89.6	91.1	88.6	90.8	94.7	93.4	93.4	89.9	91.8	91.1	90.8	93.3	91.4	90.5
17	56.9	62.8	65.0	67.3	63.3	62.4	61.1	61.3	56.3	61.2	61.2	61.3	64.0	63.1
18	80.1	78.8	77.2	77.1	78.9	76.4	76.9	76.6	73.7	77.4	77.7	77.2	79.5	78.7
19	49.4	58.2	50.4	51.4	58.1	49.5	47.3	48.9	41.8	47.5	49.0	49.0	58.5	57.7
21	–	50.7	51.0	42.8	50.4	42.5	48.9	–	–	48.8	–	–	50.2	49.3
22	–	10.8	11.4	–	10.9	–	13.3	–	–	13.3	–	–	10.9	10.0
1-OMe	55.4	55.8	56.3	55.5	55.8	56.4	55.8	55.9	58.2	55.7	55.9	55.9	–	–
6-OMe	57.9	59.3	59.1	58.9	59.3	58.8	58.7	59.0	55.4	58.2	58.0	58.6	58.1	57.3
8-OMe	–	–	–	–	50.4	–	–	–	–	–	–	49.9	–	–
16-OMe	61.2	61.8	61.7	61,7	62.4	62.5	62.4	58.2	61.7	61.9	61.9	62.6	57.6	56.7
18-OMe	59.1	58.9	59.3	59.2	59.0	59.1	59.1	61.3	58.8	59.1	59.2	59.2	59.2	58.3
8-OAc	172.1	170.4	–	–	–	–	–	–	172.5	–	–	–	–	–
	21.4	21.2	–	–	–	–	–	–	21.4	–	–	–	–	–
	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OAni	14-OAni	14-OAni	14-OAni	14-OBz	–
COO	165.9	165.7	161.9	166.5	166.3	166.1	165.9	165.9	166.4	165.8	165.9	166.0	166.2	–
1'	129.8	129.1	130.6	129.8	131.1	130.3	129.7	129.7	130.6	121.9	122.0	122.0	131.5	–
2'	129.6	129.6	130.3	129.3	130.4	129.8	129.7	129.7	129.9	131.9	131.9	131.8	130.6	–
3'	128.6	129.9	129.7	129.1	129.3	128.3	128.7	128.7	117.8	113.9	113.9	113.6	129.2	–
4'	133.3	133.7	134.5	133.9	133.9	132.8	133.3	133.3	162.6	163.7	163.7	163.6	133.6	–
5'	128.6	129.9	129.7	129.1	129.3	128.3	128.7	128.7	117.8	113.9	113.8	113.6	129.2	–
6'	129.6	129.6	130.3	129.3	130.4	129.8	129.7	129.7	129.9	131.9	131.9	131.8	130.6	–
4'-OMe	–	–	–	–	–	–	–	–	56.5	55.5	55.5	55.4	–	–

119: 8-OBz: 167.7 (COO), 130.2 (C-1''), 130.3 (C-2''), 130.2 (C-3''), 134.6 (C-4''), 130.2 (C-5''), 130.3 (C-6'').

121: 8-OC_4H_{10}: 61.8 (C-1'), 32.4 (C-2'), 19.3 (C-3'), 13.9 (C-4').

122: 8-OC_4H_{10}: 61.8 (C-1''), 32.4 (C-2''), 19.2 (C-3''), 13.8 (C-4'').

123: 8-$OCOC_3H_6OH$: 175.0 (C-1''), 61.5 (C-2''), 31.4 (C-3''), 27.0 (C-4'').

124: 3-OAc: 170.4, 21.1.

129: 14-OCin: 134.7 (C-1'), 128.2 (C-2'), 128.9 (C-3'), 130.2 (C-4'), 128.9 (C-5'), 128.2 (C-6'), 144.6 (C-7'), 118.5 (C-8'), 165.6 (C-9').

Table S2 (*Contd.*)

Carbon	**130**[76]	**131**[76]	**132**[72]	**133**[77]	**134**[78]	**135**[58]	**136**[117]	**137**[58]	**138**[58]	**139**[58]	**140**[58]	**141**[58]	**142**[74]	**143**[80]
1	72.0	72.1	72.0	71.9	82.9	78.2	69.2	77.9	78.1	78.1	78.4	79.0	77.1	81.9
2	30.0	30.0	29.2	30.0	23.9	31.1	29.5	31.0	35.0	30.9	31.0	23.2	32.8	31.9
3	29.5	29.3	29.9	29.5	28.9	70.1	30.8	70.3	69.8	70.3	70.3	27.6	71.6	71.1
4	38.1	37.9	37.8	38.1	38.7	44.0	37.8	43.7	44.1	43.7	44.0	38.6	42.8	43.0
5	43.6	44.3	46.6	44.0	39.6	39.0	40.3	40.2	41.5	39.6	40.2	39.3	42.2	40.8
6	84.1	82.9	82.9	83.7	79.8	82.6	83.1	82.6	84.0	82.7	82.2	82.1	83.2	83.3
7	43.7	52.5	44.3	43.6	48.5	43.1	48.3	45.4	42.4	43.4	48.9	45.1	44.4	44.7
8	92.0	75.3	74.2	91.9	89.5	81.7	89.4	88.6	81.8	81.7	76.6	88.6	89.9	91.7
9	43.6	46.6	52.4	43.3	52.7	54.3	52.7	53.1	56.0	54.4	54.1	53.0	53.8	44.1
10	43.0	43.1	43.1	39.6	78.9	79.3	78.7	78.6	79.4	79.3	79.4	78.6	78.9	77.2

11	49.2	49.3	49.2	49.2	55.0	56.8	54.2	56.4	56.9	56.7	56.3	56.4	55.7	50.1
12	29.4	29.8	29.7	36.3	46.1	47.4	47.2	47.0	48.7	47.5	47.4	47.4	46.5	35.5
13	38.3	38.1	38.0	74.0	74.7	76.0	74.6	75.4	76.2	76.0	75.8	75.4	74.8	74.0
14	75.6	75.3	75.3	79.1	78.3	79.3	78.3	78.7	80.0	79.3	79.5	78.8	78.4	78.8
15	76.2	68.2	68.1	78.7	78.8	77.7	79.6	80.1	78.7	77.7	82.5	80.2	79.6	78.8
16	88.9	81.8	81.7	89.8	88.9	93.7	89.3	90.3	94.9	94.2	91.7	90.0	89.4	89.9
17	62.7	62.6	62.6	62.9	57.3	67.7	62.8	65.0	64.1	65.3	68.1	67.2	61.6	61.2
18	79.8	80.1	80.0	79.8	80.0	77.3	79.7	77.2	75.1	77.3	78.1	78.9	77.0	76.4
19	56.3	56.7	56.6	56.2	49.7	52.2	57.2	50.4	50.5	50.6	52.6	59.2	49.6	47.6
21	48.7	48.3	48.3	48.7	–	41.9	48.7	51.0	42.9	50.5	42.2	42.7	47.7	49.0
22	13.0	13.0	13.0	13.0	–	–	41.4	11.1	–	11.2	–	–	13.1	12.8
1-OMe	–	–	–	–	55.4	55.4	–	55.3	55.7	55.1	55.4	56.0	55.6	55.7
6-OMe	58.1	57.9	58.4	58.1	58.0	59.1	61.5	59.1	58.8	59.1	58.3	59.3	58.4	58.2
8-OMe	–	–	–	–	–	50.4	–	–	49.9	50.4	–	–	–	–
16-OMe	57.8	58.4	57.9	61.5	61.2	62.3	58.1	61.7	62.2	62.5	61.1	61.6	61.3	61.3
18-OMe	59.1	59.2	59.2	59.1	59.1	59.2	59.1	59.3	58.9	59.2	59.2	59.1	59.1	59.0
8-OAc	172.3	170.3	170.2	170.4	172.2	–	172.3	–	–	–	–	–	–	–
	21.5	21.1	21.2	21.4	21.2	–	21.3	–	–	–	–	–	–	–
14-OAc	–	170.3	170.3	–	–	–	–	–	–	–	–	–	–	–
	–	20.9	20.9	–	–	–	–	–	–	–	–	–	–	–
	14-OBz	–	–	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz
COO	165.9	–	–	165.9	165.9	166.3	165.9	166.2	166.5	166.5	166.5	166.1	166.5	165.9
1'	130.0	–	–	129.7	129.6	131.2	129.6	130.9	131.7	131.7	131.4	130.6	129.2	129.7
2'	129.6	–	–	129.6	129.6	130.4	129.6	130.3	130.3	130.4	130.6	130.4	129.6	129.7
3'	128.6	–	–	128.7	128.7	129.3	128.7	129.6	129.6	129.3	129.2	129.7	128.2	128.6
4'	133.2	–	–	133.3	133.4	133.9	133.4	134.2	133.6	133.9	133.7	134.4	133.3	133.2
5'	128.6	–	–	128.7	128.7	129.3	128.7	129.6	129.2	129.2	129.2	129.7	128.2	128.6
6'	129.6	–	–	129.6	129.6	130.4	129.6	130.3	130.4	130.4	130.6	130.4	129.6	129.7

136: 22-OAc: 207.2, 30.3.

143: 8-lip: 175.1 (COO), 34.7 (C-1''), 27.1 (C-2''), 29.6 (C-3''), 24.1 (C-4''), 28.9 (C-5''), 27.2 (C-6''), 27.2 (C-7''), 29.3 (C-8''), 130.2 (C-9''), 128.1 (C-10''), 31.5 (C-11''), 127.8 (C-12''), 129.9 (C-13''), 25.6 (C-14''), 29.0 (C-15''), 29.0 (C-16''), 22.7 (C-17''), 14.1 (C-18'').

Table S2 (*Contd.*)

Carbon	**144**[78]	**145**[82]	**146**[58]	**147**[53]	**148**[79]	**149**[74]	**150**[74]	**151**[81]	**152**[103]	**153**[78]	**154**[82]	**155**[83]	**156**[83]	**157**[84]
1	78.9	83.9	82.5	82.4	82.5	80.9	82.0	85.4	80.5	80.3	82.1	72.6	72.6	77.2
2	30.8	26.2	26.3	25.3	32.6	22.0	22.7	29.9	22.0	30.0	22.8	29.4	29.4	26.3
3	70.5	32.4	33.8	33.4	71.0	27.2	28.8	32.0	29.5	72.9	28.1	27.4	27.4	28.7
4	41.1	41.4	47.7	37.8	43.6	38.0	38.4	39.2	42.1	49.7	46.6	37.0	37.0	37.5
5	46.5	47.4	49.0	47.6	46.5	41.3	42.6	44.5	44.7	44.3	45.6	45.5	45.5	46.1
6	82.9	82.8	84.5	83.3	83.7	81.9	82.1	81.8	82.7	83.8	84.0	90.5	90.5	90.8
7	51.0	44.5	51.7	50.9	42.3	42.8	43.8	41.8	49.7	50.2	49.4	88.0	88.0	88.4
8	90.1	91.3	90.1	91.3	77.5	82.1	82.5	79.1	89.3	90.1	90.5	78.2	78.2	77.6
9	43.0	44.2	43.4	43.5	38.0	44.2	44.2	46.9	41.9	42.4	42.5	45.4	45.4	50.3
10	40.3	41.2	41.2	41.1	44.2	43.4	40.5	40.0	39.1	40.4	40.4	44.1	44.1	38.2

11	48.5	49.1	49.8	50.0	51.2	50.7	50.6	48.1	51.9	49.5	51.2	49.1	49.1	49.1
12	34.0	35.8	36.3	35.6	31.8	29.3	36.2	29.0	36.5	35.5	36.3	29.4	29.4	32.2
13	74.1	74.2	75.1	74.3	49.4	36.8	74.6	41.5	74.1	74.0	74.2	39.5	39.5	43.2
14	78.3	78.8	79.7	78.8	78.3	75.2	78.9	82.4	78.8	78.8	79.2	75.8	75.8	83.9
15	78.7	78.9	79.6	79.0	85.8	74.0	77.2	79.8	78.7	78.5	78.8	34.5	34.5	33.6
16	89.9	90.2	91.6	90.4	211.8	91.7	92.8	86.4	89.6	89.6	89.8	82.1	82.1	82.5
17	57.7	62.6	60.2	56.7	62.1	63.2	64.0	68.3	72.9	60.7	60.5	66.3	66.3	64.5
18	71.2	78.6	79.2	80.0	76.3	78.0	78.3	65.8	77.9	72.4	78.1	68.3	68.3	68.2
19	39.2	56.4	173.0	173.3	49.3	56.7	56.4	68.9	138.9	163.0	165.8	56.9	56.9	51.1
21	163.1	41.4	41.4	45.5	48.5	50.8	50.6	48.2	–	–	–	50.5	50.5	52.4
22	–	–	13.2	33.7	12.2	10.7	11.5	12.2	–	–	–	13.8	13.8	14.1
1-OMe	55.7	56.5	55.6	55.5	55.9	55.9	56.2	–	56.6	55.8	56.3	–	–	56.4
6-OMe	57.8	58.1	57.8	58.0	58.3	58.8	59.0	55.5	57.3	57.4	57.3	57.9	58.1	57.9
8-OMe	–	–	–	–	–	50.4	–	57.9	–	–	–	–	–	–
14-OMe	–	–	–	–	–	–	–	57.0	–	–	–	–	58.2	58.8
16-OMe	61.0	61.2	61.3	61.5	–	57.2	62.0	55.7	61.4	61.0	61.3	56.5	–	57.8
18-OMe	58.9	59.3	59.2	59.4	59.2	59.2	59.3	–	59.3	58.9	59.3	–	–	–
3-OAc	170.1	–	–	–	–	–	–	–	–	170.4	–	–	–	–
	21.0	–	–	–	–	–	–	–	–	21.0	–	–	–	–
8-OAc	172.2	172.6	173.0	–	–	–	–	–	172.1	172.0	17.2	–	–	–
	21.2	21.5	21.5	–	–	–	–	–	21.4	21.2	21.5	–	–	–
	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	14-OBz	–	14-OBz	14-OBz	14-OBz	–	–	–
COO	165.9	166.2	166.2	166.2	166.0	166.1	166.3	–	166.2	165.9	166.2	168.0	168.1	167.8
1'	129.6	129.9	130.9	129.9	129.1	129.9	130.1	–	130.0	129.5	129.8	110.1	110.3	110.3
2'	129.6	129.8	130.3	129.8	129.7	129.8	130.0	–	129.8	129.5	129.8	151.0	151.0	150.7
3'	128.7	128.8	129.6	128.9	128.7	128.5	128.6	–	129.0	128.6	128.8	117.0	117.1	116.8
4'	133.4	133.5	134.2	133.6	133.8	133.1	133.3	–	133.8	133.4	133.5	134.6	134.7	134.3
5'	128.7	128.8	129.6	128.9	128.7	128.5	128.6	–	129.0	128.6	128.8	116.5	116.6	116.3
6'	129.6	129.8	130.3	129.8	129.7	129.8	130.0	–	129.9	129.5	129.8	130.7	130.8	130.7

145: 19-CN: 118.8.

146: 15-OMe: 62.4.

147: 45.5 (C-21), 33.7 (C-22), 25.0 (C-23), 29.6 (C-24), 31.9 (C-25), 22.9 (C-26), 14.3 (C-27).

Table S2 (*Contd.*)

Carbon	**158**[83]	**159**[83]	**160**[85]	**161**[83]	**162**[86]	**163**[86]	**164**[86]	**165**[87]	**166**[87]	**167**[87]	**168**[28]	**169**[85]	**170**[88]	**171**[89]
1	83.8	83.6	72.3	85.1	83.7	83.7	83.7	72.8	72.5	78.9	70.9	70.7	77.8	77.4
2	27.0	27.4	29.1	25.5	26.0	26.0	26.0	29.6	29.1	27.7	130.1	130.2	26.2	26.7
3	33.3	33.2	27.3	32.4	32.1	32.1	32.1	27.9	31.2	37.5	137.4	136.8	37.2	36.6
4	39.0	38.8	36.7	38.1	37.6	37.6	37.5	33.4	33.2	34.6	33.7	35.2	33.6	34.3
5	52.0	51.9	45.6	50.3	50.1	50.1	50.1	46.7	46.2	51.4	57.5	55.3	45.6	51.3
6	91.6	91.8	90.4	90.2	90.7	90.7	90.7	34.7	26.9	34.5	81.7	81.6	34.1	82.8
7	89.6	89.4	87.9	89.0	88.3	88.3	88.3	88.2	87.6	88.7	89.1	87.2	87.5	90.4
8	77.9	78.3	77.9	85.4	77.4	77.5	77.5	81.3	81.5	79.2	84.6	77.4	77.8	79.1
9	47.0	44.7	43.9	53.9	42.5	42.5	42.5	43.5	43.0	46.1	44.5	42.1	55.4	52.0

10	58.7	58.7	45.2	44.0	45.7	45.7	45.7	44.5	44.0	45.7	37.0	44.3	79.8	81.7
11	49.7	50.1	48.9	49.2	49.0	49.0	49.0	50.4	50.7	48.1	49.2	49.1	54.5	54.8
12	76.1	76.4	29.1	25.5	28.1	28.1	28.7	27.9	29.4	28.2	27.5	27.9	38.9	39.3
13	50.7	49.7	39.3	46.1	38.2	38.1	38.1	41.8	37.4	36.6	42.1	37.4	39.3	40.2
14	74.2	83.4	75.5	215.8	75.9	75.9	75.9	84.7	75.5	74.5	75.4	76.9	72.2	82.3
15	35.3	35.5	34.3	33.2	33.7	33.7	33.7	30.2	34.9	26.6	26.7	38.3	27.8	28.4
16	80.8	80.9	81.8	85.4	82.3	82.2	82.3	73.0	82.6	82.1	82.4	82.2	82.3	82.9
17	67.5	67.0	65.9	65.6	64.4	64.4	64.4	63.7	63.7	63.9	65.0	65.7	63.4	65.4
18	69.9	69.9	69.3	68.4	69.7	69.6	69.7	27.5	27.5	26.0	23.7	23.8	26.2	25.9
19	53.3	53.3	56.7	52.5	52.3	52.2	52.2	59.7	59.8	56.4	56.2	56.1	55.1	56.4
21	52.2	52.2	50.2	51.4	51.0	51.0	51.0	50.6	50.5	51.7	50.3	50.2	50.6	51.3
22	14.6	14.5	13.5	14.4	14.0	14.0	14.0	14.0	14.0	15.1	13.7	13.6	14.5	14.3
1-OMe	56.3	56.4	–	56.1	55.8	55.7	55.8	–	–	–	–	–	55.0	55.5
6-OMe	58.6	58.4	57.8	58.5	58.1	58.0	58.1	–	–	–	–	–	–	–
8-OMe	–	–	–	–	–	–	–	52.4	52.0	53.4	57.6	–	52.0	51.9
14-OMe	–	58.0	–	–	–	–	–	58.1		–	–	–	–	57.6
16-OMe	56.6	56.5	56.2	56.4	56.3	56.2	56.2	–	56.5	56.7	56.2	56.0	55.3	56.6
6-OAc	–	–	–	–	–	–	–	–	–	–	–	172.4	–	173.4
	–	–	–	–	–	–	–	–	–	–	–	21.3	–	21.7
14-OAc	–	–	–	–	171.9	171.9	171.9	–	170.8	–	170.1	170.6	–	–
	–	–	–	–	21.5	21.5	21.5	–	21.5	–	21.1	21.4	–	–
1'	169.4	169.4	168.0	168.0	167.9	169.9	169.9	–	–	–	–	–	–	–
2'	110.9	120.9	114.2	110.3	114.7	114.8	114.8	–	–	–	–	–	–	–
3'	153.2	153.2	141.8	151.0	141.5	141.7	141.7	–	–	–	–	–	–	–
4'	118.1	118.1	120.5	117.1	120.7	120.7	120.7	–	–	–	–	–	–	–
5'	135.5	135.5	135.0	134.6	134.9	134.9	134.9	–	–	–	–	–	–	–
6'	116.8	116.8	122.5	116.6	122.8	122.7	122.7	–	–	–	–	–	–	–
7'	131.8	131.8	130.0	130.8	130.3	130.3	130.3	–	–	–	–	–	–	–
8'	–	–	168.9	–	–	–	–	–	–	–	–	–	–	–
9'	–	–	25.4	–	–	–	–	–	–	–	–	–	–	–

162: 174.5 (C-1''), 42.0 (C-2''), 36.3 (C-3''), 177.8 (C-4''), 17.7 (C-5'').

163: 174.6 (C-1''), 39.4 (C-2''), 39.2 (C-3''), 173.4 (C-4''), 18.2 (C-5'').

164: 174.8 (C-1''), 39.0 (C-2''), 38.0 (C-3''), 174.6 (C-4''), 17.9 (C-5'').

167: 14-OBz: 168.9 (COO), 131.2(C-1'), 129.6(C-2'), 128.7(C-3'), 137.0(C-4'), 128.7(C-5'), 129.6(C-6').

Table S2 (*Contd.*)

Carbon	**172**[90]	**173**[91]	**174**[92]	**175**[92]	**176**[93]	**177**[84]	**178**[88]	**179**[75]	**180**[28]	**181**[28]	**182**[94]	**183**[101]	**184**[101]	**185**[101]
1	84.6	69.8	80.6	80.6	82.1	83.6	68.8	68.9	77.9	83.7	77.2	78.1	77.2	78.0
2	26.2	34.6	19.4	19.4	21.0	18.4	23.0	21.9	26.0	26.5	26.5	26.6	26.0	26.6
3	38.1	26.7	24.5	25.2	26.3	31.0	30.8	25.8	32.1	32.3	31.7	32.2	31.7	31.6
4	35.3	38.2	48.1	49.3	45.7	38.1	38.3	42.6	38.2	38.1	37.9	38.1	38.3	38.4
5	61.9	40.8	44.3	46.2	46.1	45.8	46.8	44.2	39.3	43.3	47.3	39.2	45.9	38.4
6	219.0	91.0	86.7	87.8	91.0	90.6	32.6	31.4	32.3	32.0	79.8	32.8	78.3	32.6
7	87.8	87.2	88.1	87.3	86.9	84.2	87.4	86.1	91.7	90.8	92.5	90.6	93.2	90.6

8	78.7	76.8	76.3	76.3	78.8	80.4	78.9	73.9	82.6	81.3	82.3	82.7	83.2	79.9
9	42.4	53.7	44.7	44.6	44.4	45.1	46.3	46.5	55.4	47.0	51.0	53.4	52.3	53.2
10	46.5	83.0	42.5	42.6	43.7	38.1	36.9	36.5	78.1	36.5	83.5	79.8	79.8	82.7
11	44.2	54.1	50.5	50.6	53.0	51.9	47.5	45.8	55.7	50.7	56.0	55.8	55.0	56.3
12	26.3	41.0	28.6	28.2	32.0	28.7	29.6	27.0	36.9	27.3	38.6	38.5	33.0	38.6
13	36.3	38.2	38.2	37.5	39.4	43.7	40.5	38.7	36.3	44.2	37.5	36.2	36.6	36.4
14	74.2	82.9	75.1	75.0	85.6	83.9	75.5	75.3	72.8	75.2	81.6	74.7	72.9	74.7
15	30.5	34.6	34.1	33.8	34.3	33.5	29.0	35.9	32.8	33.5	34.3	34.4	37.4	34.4
16	81.5	82.0	81.5	81.3	84.1	82.6	83.0	81.6	81.1	81.3	81.6	81.2	81.3	81.2
17	64.4	66.4	71.1	70.6	79.0	64.8	65.0	56.1	62.6	62.1	63.6	65.1	64.9	62.2
18	24.7	66.9	72.8	65.6	65.0	69.6	20.0	73.7	78.8	78.9	78.8	79.1	78.3	68.3
19	56.1	57.1	177.8	180.9	144.1	87.5	89.0	82.8	52.3	52.4	53.8	52.6	53.4	52.4
21	50.7	50.3	58.4	58.0	–	51.1	48.0	–	50.6	50.7	50.7	50.7	50.6	50.8
22	14.2	14.0	13.6	13.7	–	13.2	14.3	–	14.0	14.0	14.0	14.1	14.1	14.1
1-OMe	56.1	–	56.6	56.6	57.0	56.4	–	–	55.7	55.8	55.6	55.8	55.7	55.8
6-OMe	–	58.0	59.0	59.3	59.3	58.8	–	–	–	–	–	–	–	–
8-OMe	53.5	–	–	–	–	–	53.3	–	–	–	–	–	–	–
14-OMe	–	57.8	–	–	58.1	57.9	–	–	–	–	56.4	–	–	–
16-OMe	56.7	56.3	56.8	56.9	56.6	57.8	56.8	56.5	56.4	56.2	58.0	56.3	56.5	56.3
18-OMe	–	–	59.5	–	–	–	–	59.3	59.5	59.5	59.7	59.6	59.5	–
OCH_2O	–	–	–	–	–	–	–	–	93.8	93.3	93.4	93.8	94.3	93.8
14-OAc	–	–	–	–	–	–	–	–	–	171.7	–	171.9	170.2	172.1
	–	–	–	–	–	–	–	–	–	21.4	–	21.5	21.8	21.5

Table S2 (*Contd.*)

Carbon	**186**[101]	**187**[96]	**188**[85]	**189**[87]	**190**[97]	**191**[92]	**192**[94]	**193**[97]	**194**[97]	**195**[97]	**196**[98]	**197**[98]	**198**[98]	**199**[90]
1	78.2	72.6	71.8	72.2	83.2	83.2	83.7	81.6	81.8	80.5	79.1	79.6	211.2	83.5
2	26.7	26.2	29.5	27.8	26.9	26.4	27.4	26.5	26.8	27.3	26.0	25.8	40.4	26.5
3	32.1	31.6	31.7	31.7	36.8	28.5	32.7	34.7	31.6	34.2	36.2	36.7	39.4	37.9
4	38.4	38.2	32.5	33.3	34.1	40.7	39.3	45.9	45.9	45.9	32.7	34.2	35.8	35.1
5	38.6	37.6	51.7	45.0	56.3	53.3	54.5	55.8	55.8	56.7	58.2	61.2	61.6	60.8
6	32.7	31.1	89.2	32.4	79.1	87.7	79.4	91.5	91.5	81.6	89.8	213.9	213.8	216.8
7	90.3	90.8	92.1	90.1	92.9	94.4	94.3	91.4	91.1	89.9	88.2	87.2	90.8	91.6
8	80.2	80.7	83.2	81.7	84.1	81.4	83.9	80.0	79.9	82.8	83.8	83.0	81.8	81.5
9	54.0	80.8	42.0	45.5	40.4	42.5	49.0	42.2	42.2	40.1	40.2	41.9	44.9	41.4
10	83.4	79.1	45.7	45.5	47.8	48.6	41.5	48.2	47.9	47.6	48.4	47.5	41.5	47.7
11	56.5	56.5	50.8	51.7	50.4	48.5	51.1	47.4	47.2	48.3	49.3	46.2	56.1	46.2
12	39.4	35.4	28.8	32.4	28.1	26.8	28.6	26.2	26.3	27.6	27.3	27.1	28.6	26.7
13	38.0	37.7	38.6	38.8	37.7	36.2	38.5	35.4	35.2	37.9	38.7	38.6	36.5	39.7
14	81.7	88.0	74.6	74.8	82.0	74.7	76.9	74.1	74.1	82.6	83.4	82.0	73.6	82.9
15	34.1	39.8	35.8	34.1	33.3	32.3	35.9	30.2	30.0	32.4	34.7	32.7	32.4	35.5
16	81.7	79.4	81.6	81.4	81.8	82.2	83.0	81.8	81.7	81.1	81.3	81.1	80.8	71.4
17	61.9	61.9	65.1	63.1	64.8	61.0	65.3	63.4	58.9	57.9	62.1	59.0	65.2	63.1
18	68.5	78.2	27.1	27.1	25.3	78.2	79.8	22.3	22.0	21.3	25.6	24.2	24.4	24.6

19	52.4	53.0	60.9	59.9	60.1	57.0	55.0	173.3	176.0	176.1	47.1	46.0	58.5	57.1
21	50.7	50.6	49.8	50.2	43.9	45.6	51.6	42.7	–	–	163.1	162.0	50.1	50.2
22	14.3	13.8	13.4	13.7	–	14.9	14.2	12.3	–	–	–	–	13.7	13.8
1-OMe	55.8	–	–	–	56.1	55.8	55.8	55.4	55.7	55.3	55.0	55.6	–	56.1
6-OMe	–	–	58.5	–	–	58.7	–	59.3	59.4	–	59.4	–	–	–
14-OMe	58.0	59.4	–	–	57.9	–	–	–	–	57.8	58.0	58.1	–	58.3
16-OMe	56.5	59.5	56.1	56.5	56.3	56.7	56.3	56.7	56.7	56.4	56.4	56.6	56.7	–
18-OMe	–	55.6	–	–	–	59.3	59.7	–	–	–	–	–	–	–
OCH_2O	93.9	93.7	93.8	93.9	92.9	94.3	94.3	94.4	94.4	93.3	94.1	95.9	95.8	95.4

191: 19-CH_2COCH_3: 46.1(CH_2), 207.8(C=O), 30.6(CH_3).

192: 169.0(C-1'), 117.0(C-2'), 145.8(C-3'), 130.1(C-4'), 130.7(C-5'), 118.0(C-6'), 160.8(C-7'), 118.0(C-8'), 130.7(C-9'), 101.9(C-1''), 74.8(C-2''), 78.2(C-3''), 71.3(C-4''), 78.0(C-5''), 62.5(C-6'').

Table S2 (*Contd.*)

Carbon	**200**[101]	**201**[101]	**202**[88]	**203**[87]	**204**[92]	**205**[90]	**206**[90]	**207**[90]	**208**[92]	**209**[92]	**210**[92]	**211**[92]	**213**[101]	**214**[101]
1	84.3	83.8	81	80.5	82.3	82.4	80.9	80.4	79.3	79.4	88.4	88.4	72.3	74.1
2	26.1	25.6	24.1	24.2	25.4	26.4	25.4	25.7	19.8	19.9	20.4	20.4	30.4	30.2
3	32.4	31.5	26.5	26.5	27.2	32.1	31.6	32.1	24.2	25.3	25.1	25.1	30.8	32.1
4	38.6	38.5	48.8	48.3	50.0	45.5	44.6	44.2	47.7	48.7	47.1	47.1	34.2	34.2
5	46	45.9	49.1	48.4	48.9	53.2	53.2	53.3	44.5	47.3	45.7	45.7	44.2	45.8
6	31.7	77.9	80.7	90.1	90.5	91.3	81.2	91.0	87.4	86.9	78.9	78.9	26.2	26.6
7	91.6	92.7	90.7	91.1	92.0	91.9	90.6	90.8	90.9	90.7	90.6	90.6	45.2	41.9
8	88	87	84	82.9	80.8	80.5	83.7	82.8	83.3	83.3	83.5	83.5	86.6	88.2
9	52.1	58.5	40.2	39.7	42.5	42.3	40.1	39.7	39.2	39.2	39.1	39.1	48.7	49.5
10	44.2	79.8	47	47.4	48.2	48.4	47.3	48.0	44.9	45.0	45.3	45.3	40.2	40.5
11	51.2	55	50.7	50.4	48.7	47.9	49.9	49.5	53.0	53.1	52.4	52.4	50.4	51.1
12	24.9	31.1	29.3	29.4	26.9	26.5	28.6	28.6	30.9	30.9	30.6	30.6	30.2	30.6
13	45.6	45.3	38.2	38.7	36.0	35.6	38.0	38.7	37.1	37.1	37.1	37.1	76.2	76.6
14	213.7	213.2	83.3	83.5	74.6	74.4	83.1	83.4	82.8	82.8	82.7	82.7	173.6	174.7
15	31.5	36.2	33	34.7	31.7	31.1	32.8	34.3	35.0	34.9	34.6	34.6	30.5	31.1
16	84.8	76.9	81.7	81.7	82.0	81.8	81.4	81.3	82.0	82.1	81.8	81.8	29.2	30.9
17	63.5	65.3	63.9	64.4	65.1	64.4	63.0	63.8	67.4	67.7	67.9	67.9	58.7	63.2
18	78.9	78.1	75.1	75.0	75.1	22.3	22.1	22.6	72.8	66.4	64.9	64.9	27.4	27.9
19	52.7	53.3	167.3	166.2	167.9	171.0	170.7	170.0	180.9	182.2	179.5	179.5	51.0	61.3
21	51	50.7	–	–	–	–	–	–	57.0	57.2	57.5	57.5	–	49.3
22	14.3	14.1	–	–	–	–	–	–	13.6	13.7	13.6	13.6	–	13.3
1-OMe	56.1	55.8	55.9	55.7	56.0	55.7	55.6	55.3	56.4	56.3	59.9	59.9	–	–
6-OMe	–	–	–	58.7	58.8	59.1	–	59.0	59.1	59.4	56.4	56.4	–	–
14-OMe	–	–	58.1	58.0	–	–	57.9	57.9	58.2	58.2	58.2	58.2	–	–
16-OMe	56.2	56.3	56.6	56.5	56.8	56.6	56.4	56.3	56.7	56.7	56.7	56.7	–	–
18-OMe	59.6	59.5	59.9	59.4	59.6	–	–	–	59.5	–	–	–	–	–
OCH_2O	94.1	94.8	93.6	94.2	94.8	94.5	93.3	94.0	94.9	94.8	94.8	94.8	–	–
8-OAc	–	–	–	–	–	–	–	–	–	–	–	–	171.5	171.3
	–	–	–	–	–	–	–	–	–	–	–	–	21.9	22.0

201: 6-OAc: 170.2, 21.7.

210: 167.3(18-COO), 114.6(C-1'), 142.0(C-2'), 121.1(C-3'), 135.3(C-4'), 123.1(C-5'), 130.9(C-6'), 174.4(C-1''), 39.2(C-2''), 37.8(C-3''), 172.6(C-4''), 52.0(C-5''), 18.1(C-6'').

211: 167.3(18-COO), 114.7(C-1'), 141.7(C-2'), 121.3(C-3'), 135.4(C-4'), 123.0(C-5'), 130.9(C-6'), 170.3(C-1''), 41.5(C-2''), 36.1(C-3''), 176.1(C-4''), 52.2(C-5''), 17.3(C-6'').

Table S2 (*Contd.*)

Carbon	**215**[101]	**216**[102]	**217**[78]	**218**[103]	**219**[73]	**220**[48]	**221**[104]	**222**[82]	**223**[82]	**224**[43]	**225**[47]	**226**[44]	**227**[53]	**228**[20]
1	72.6	83.2	79.7	89.6	87.0	86.3	86.7	86.9	86.9	86.5	86.5	82.6	80.3	72.1
2	29.8	26.8	29.9	24.7	29.9	29.8	24.3	24.5	24.5	24.2	24.3	24.5	29.6	28.9
3	30.5	36.5	71.7	37.4	75.1	74.8	32.7	33.0	33.0	32.5	32.7	32.9	29.9	28.5
4	33.6	34.7	47.3	39.7	42.0	42.3	37.3	37.6	37.5	37.0	37.3	37.5	43.5	39.3
5	51.4	50.8	42.6	46.2	38.8	38.6	48.0	48.2	48.3	43.6	47.8	47.4	42.3	43.9
6	73.2	75.9	86.4	80.1	78.7	78.9	74.5	74.6	74.6	76.2	74.8	74.9	82.2	83.3
7	49.6	49.2	131.2	132.1	130.5	131.6	122.9	123.9	123.1	64.1	128.8	129.2	64.4	55.2
8	75.9	73.5	137.1	137.5	135.2	130.2	139.9	138.6	139.8	59.1	136.3	136.1	83.3	74.8
9	48.9	100.4	41.3	43.0	43.8	45.0	44.3	42.9	44.6	42.7	42.6	44.1	44.5	45.2
10	40.2	42.7	41.5	41.7	38.7	38.6	49.1	49.5	49.3	46.9	49.0	47.1	40.8	45.1
11	49.8	49.5	42.2	48.5	45.8	46.0	50.3	50.7	50.5	49.1	50.9	50.7	50.9	51.5
12	30.3	33.4	38.5	38.9	40.4	40.8	29.7	30.2	29.9	29.4	29.0	39.2	35.5	30.9
13	74.8	75.3	75.3	75.6	75.5	76.1	39.1	36.5	39.4	36.6	42.4	77.5	74.7	41.0
14	173.1	174.8	79.2	79.4	80.8	81.4	77.3	78.8	77.7	77.9	79.1	83.4	78.8	81.7
15	36.0	29.2	73.8	74.1	73.9	35.2	73.4	73.4	73.8	36.5	41.5	39.0	76.4	42.0
16	31.7	29.6	92.2	92.2	95.3	85.5	93.4	93.9	93.7	82.3	76.4	86.5	93.2	84.0
17	64.1	62.3	165.0	166.4	86.9	50.7	92.5	92.6	92.6	94.3	92.4	92.8	70.0	64.6
18	27.7	26.2	71.9	80.6	76.5	76.7	79.0	79.1	79.3	79.1	79.0	79.2	76.6	79.8
19	61.8	58.3	52.1	58.3	50.9	87.6	52.0	52.2	52.3	52.3	52.1	52.2	50.3	59.1
21	48.6	48.9	–	–	48.9	49.3	49.1	49.3	49.3	49.1	49.4	49.3	–	50.1
22	13.2	13.4	–	–	12.6	13.4	13.1	13.3	13.3	13.1	13.1	13.3	–	10.7
1-OMe	–	57.7	57.0	58.2	57.3	57.2	57.1	57.3	57.3	56.1	57.1	59.6	55.4	–
6-OMe	–	55.2	58.2	56.9	57.6	57.6	–	–	–	–	–	–	59.3	58.5
8-OMe	–	–	–	–	–	–	–	–	–	–	–	–	50.7	–
16-OMe	–	–	61.6	61.8	59.9	58.1	57.5	57.3	57.3	57.2	–	58.5	62.2	56.5
18-OMe	–	–	58.7	59.1	59.1	59.2	59.5	59.6	59.7	59.5	59.5	59.6	59.0	59.5
14-OAc	–	–	–	–	–	–	–	–	–	–	170.7	–	–	–
	–	–	–	–	–	–	–	–	–	–	21.6	–	–	–
14-OBz	–	–	14-OBz	14-OBz	14-OBz	14-OAin	–	14-OBz	–	14-OBz	–	14-OAni	14-OBz	–
COO	–	–	166.1	166.4	166.8	166.7	–	166.5	–	166.4	–	166.6	166.4	–
1'	–	–	129.7	130.0	130.0	122.8	–	130.4	–	130.4	–	122.9	130.0	–
2'	–	–	129.9	130.1	129.9	131.9	–	129.8	–	129.7	–	132.0	130.0	–
3'	–	–	128.5	128.7	128.4	113.7	–	128.6	–	128.4	–	113.8	128.7	–
4'	–	–	133.3	133.5	133.2	163.4	–	113.4	–	132.8	–	163.6	133.4	–
5'	–	–	128.5	128.7	128.4	113.7	–	128.6	–	128.4	–	113.8	128.7	–
6'	–	–	129.9	130.1	129.9	131.9	–	129.8	–	129.7	–	132.0	130.0	–

4'-OMe	–	–	–	–	–	55.5	–	–	–	–	–	55.6	–	–

215: 6-OAc: 171.1, 21.9.

217: 3-OAc: 170.1, 21.2.

228: 14-O-α-L-Arap: 103.3 (C-1'), 72.2 (C-2'), 74.6 (C-3'), 69.7 (C-4'), 67.1 (C-5').

Table S2 (*Contd.*)

Carbon	**229**[20]	**230**[20]	**231**[20]	**232**[21]	**233**[21]	**234**[21]	**235**[21]	**236**[21]	**237**[21]	**238**[21]	**239**[21]	**240**[105]	**241**[107]	**242**[38]
1	72.4	72.4	72.1	77.3	72.2	72.1	72.2	82.5	82.3	72.5	72.1	83.3	83.4	79.7
2	29.2	29.2	28.9	22.6	28.7	28.7	28.7	22.2	22.2	29.5	29.0	25.1	26.1	24.3
3	28.8	28.8	28.5	28.8	26.2	26.2	26.2	25.8	28.0	28.8	28.4	34.6	29.6	32.8
4	39.6	39.6	39.3	39.1	38.8	38.8	38.8	38.7	39.2	39.8	39.3	37.3	39.0	39.2
5	44.2	44.2	44.0	44.2	40.7	40.8	40.8	40.5	43.7	44.0	43.6	58.8	42.5	44.0
6	83.5	83.6	83.2	82.7	26.0	25.9	25.9	25.9	82.9	84.1	83.6	213.0	84.0	26.2
7	55.9	55.7	55.0	55.1	47.6	48.2	48.0	47.4	55.0	49.2	49.9	81.0	201.1	42.8
8	74.8	75.0	74.5	74.6	75.2	74.9	75.0	75.2	74.7	79.4	78.9	55.0	51.2	40.9
9	47.3	46.1	47.6	48.0	43.9	45.9	44.6	43.9	45.2	46.8	46.9	45.5	46.6	39.9
10	45.2	45.1	45.0	45.3	44.8	44.7	44.6	45.0	45.2	45.4	44.7	46.6	49.2	44.9
11	51.7	51.7	51.4	52.1	50.6	50.5	50.5	51.3	52.1	51.6	51.0	50.0	58.9	51.0
12	30.5	30.8	30.5	31.0	30.5	29.8	30.2	30.4	30.7	31.6	30.8	31.7	20.3	29.4
13	39.2	41.4	39.7	41.3	41.0	38.9	41.1	40.9	41.0	41.0	40.9	39.5	39.8	46.7
14	81.9	81.0	82.6	76.0	81.5	81.5	80.7	81.4	81.6	82.3	81.0	83.0	79.4	211.1
15	42.5	42.4	42.4	41.8	42.3	42.3	42.4	42.3	42.0	79.6	79.4	28.3	31.6	30.3
16	84.1	84.4	83.7	83.6	84.1	83.8	84.2	84.0	83.9	93.0	93.1	83.8	83.1	79.6
17	65.1	65.0	64.7	66.7	65.4	65.6	65.5	64.5	63.8	64.7	64.2	63.5	66.1	77.6
18	80.1	80.1	79.8	80.0	78.9	79.0	78.9	78.7	79.7	80.3	79.8	79.6	70.7	79.4
19	59.4	59.4	59.1	58.6	57.8	57.8	57.8	58.1	59.3	59.4	58.9	54.6	55.5	53.2
21	50.4	50.4	50.1	50.9	50.1	50.1	50.1	50.1	50.1	51.0	50.5	50.4	48.3	50.2
22	11.0	11.0	10.7	10.3	10.6	10.7	10.7	10.6	10.7	11.3	10.9	14.5	9.9	13.4
1-OMe	–	–	–	–	–	–	–	56.3	56.0	–	–	57.5	55.6	55.8
6-OMe	58.8	58.8	58.6	58.5	–	–	–	–	58.6	59.0	58.5	–	59.4	–
14-OMe							–	–	–	–	–	57.4	56.9	–
16-OMe	56.9	56.9	56.7	56.5	56.5	56.6	56.5	56.5	56.5	58.0	57.6	57.0	56.5	55.6
18-OMe	59.8	59.8	59.5	59.5	59.5	59.6	59.6	59.6	59.5	59.9	59.5	59.4	–	59.4

229: 14-O-β-L-Arap: 100.5 (C-1'), 71.0 (C-2'), 71.8 (C-3'), 70.5 (C-4'), 65.1 (C-5').

230: 14-O-α-L-Araf: 109.5 (C-1'), 82.1 (C-2'), 79.4 (C-3'), 88.0 (C-4'), 63.7 (C-5').

231: 14-O-β-L-Araf: 103.6 (C-1'), 78.9 (C-2'), 75.6 (C-3'), 84.4 (C-4'), 63.1 (C-5').

235: 14-O-α-L-Araf: 109.2 (C-1'), 81.7 (C-2'), 79.1 (C-3'), 87.7 (C-4'), 63.4 (C-5').

236: 14-O-α-L-Arap: 103.1 (C-1'), 72.2 (C-2'), 74.7 (C-3'), 69.8 (C-4'), 67.2 (C-5').

237: 14-O-α-L-Arap: 103.2 (C-1'), 72.2 (C-2'), 74.6 (C-3'), 69.7 (C-4'), 67.1 (C-5').

238: 14-O-α-L-Arap: 103.9 (C-1'), 72.7 (C-2'), 75.2 (C-3'), 70.4 (C-4'), 67.9 (C-5').

239: 14-O-α-L-Araf: 109.4 (C-1'), 81.0 (C-2'), 79.1 (C-3'), 87.5 (C-4'), 63.4 (C-5').

241: 164.0 (18-COO), 126.7 (C-1'), 132.9 (C-2'), 129.2 (C-3'), 133.3 (C-4'), 129.7 (C-5'), 131.2 (C-6'), 179.8 (C-1''), 35.0 (C-2''), 37.1 (C-3''), 175.8 (C-4''), 16.6 (C-5'').

Table S2 (*Contd.*)

Carbon	**243**[26]	**244**[26]	**245**[106]	**246**[106]	**247**[42]	**248**[42]	**249**[109]	**250**[98]	**251**[90]
1	79.0	79.2	85.0	84.8	85.1	84.8	88.9	85.1	84.8
2	25.1	25.9	26.2	25.9	26.3	26.0	21.7	25.4	25.8
3	28.6	33.6	39.0	33.6	39.1	33.6	30.1	32.5	32.4
4	50.8	46.5	33.4	37.4	33.4	37.5	49.8	33.3	33.6
5	41.2	45.2	137.2	137.2	41.4	37.1	49.9	58.7	58.6
6	28.9	29.0	119.1	118.9	22.7	22.1	90.5	215.8	216.4
7	47.0	47.2	22.7	22.1	119.2	118.9	87.8	89.8	88.5
8	40.8	41.0	46.7	46.8	137.3	137.3	82.0	83.3	85.2
9	40.8	41.0	48.3	48.3	46.8	46.8	39.9	47.7	41.1
10	45.6	45.9	41.3	37.1	48.4	48.3	51.3	53.2	53.9
11	50.2	50.5	41.1	40.6	41.2	40.7	42.7	49.5	50.2
12	29.2	29.4	36.2	36.2	36.3	36.3	29.6	26.5	28.1
13	46.8	47.0	48.7	48.8	48.8	48.8	45.3	37.7	39.0
14	210.0	210.3	218.5	218.5	218.5	218.5	85.3	73.1	82.1
15	29.9	30.1	37.3	37.3	37.4	37.3	33.2	33.2	33.5
16	79.2	79.4	79.9	79.9	80.0	79.9	84.2	80.8	82.1
17	77.1	76.3	49.7	50.4	49.8	50.4	42.3	59.5	59.2
18	75.1	21.7	25.9	78.4	25.9	78.5	70.5	21.6	21.6
19	166.5	170.1	57.9	54.3	58.0	54.4	174.9	163.8	163.8
21	–	–	52.4	52.6	52.5	52.6	43.7	40.3	40.1
22	–	–	12.4	12.4	12.5	12.4	13.7	12.7	12.6
1-OMe	55.4	55.6	54.6	54.7	54.7	54.7	56.8	56.0	56.0
6-OMe	–	–	–	–	–	–	61.3	–	–
14-OMe	–	–	–	–	–	–	57.9	–	58.0
16-OMe	55.7	55.9	55.9	56.0	56.0	56.0	56.4	56.6	56.6
18-OMe	59.6	–	–	59.3	–	59.3	–	–	–
OCH_2O	–	–	–	–	–	–	–	95.6	95.5

249: 167.7 (18-COO), 110.7 (C-1'), 150.8 (C-2'), 117.0 (C-3'), 133.4 (C-4'), 116.5 (C-5'), 131.0 (C-6').

Table S2 (*Contd.*)

Carbon	**252**[110]	**253**[110]	**254**[111]	**255**[111]	**256**[112]	**257**[113]	**258**[114]	**259**[115]	**260**[115]	**261**[110]	**262**[116]	**263**[125]	**264**[70]	**265**[118]
1	33.7	34.2	37.3	35.7	41.2	36.1	36.1	29.2	29.1	30.0	74.6	70.1	23.9	74.3
2	20.2	36.1	21.4	20.1	20.5	26.3	26.2	25.9	23.9	22.6	26.8	30.6	21.6	26.5
3	42.1	19.4	42.8	41.6	28.0	35.6	36.4	20.5	20.6	29.8	38.4	38.4	41.2	38.0
4	32.5	36.9	35.6	34.2	41.0	34.4	41.0	44.2	44.3	35.5	33.6	33.5	35.2	33.6
5	45.2	51.9	46.7	44.0	50.1	46.1	59.0	58.8	59.4	43.1	54.1	52.7	53.8	53.0
6	28.7	69.1	21.6	29.0	77.9	20.3	210.9	71.3	71.7	25.8	23.6	23.0	23.8	23.2
7	77.9	79.3	32.1	68.5	41.8	29.5	52.7	74.7	75.2	67.6	42.8	42.0	43.5	41.7
8	41.2	37.9	40.3	44.3	41.0	36.4	40.3	37.0	36.9	49.8	42.5	42.8	44.4	43.4
9	44.4	45.5	52.5	51.3	41.3	39.8	40.0	46.7	42.5	41.9	40.3	51.4	40.6	38.5
10	42.4	43.7	48.4	46.7	38.0	41.5	44.1	34.6	34.8	35.9	48.6	51.3	46.2	48.0
11	27.2	27.9	71.8	70.3	29.2	26.7	26.7	40.0	40.1	24.4	22.1	70.3	27.4	22.9

12	36.0	35.6	45.9	45.4	33.2	36.6	36.6	37.2	39.0	35.3	36.8	45.2	40.1	40.1
13	26.1	25.7	25.2	23.4	27.5	25.1	25.2	26.9	23.7	20.6	23.6	20.1	72.2	71.5
14	14.1	21.4	26.1	18.5	27.5	25.9	26.1	27.4	27.6	24.3	27.0	27.4	41.9	40.0
15	80.0	41.3	77.0	70.8	77.9	75.1	75.2	40.1	47.6	217.7	87.4	85.9	88.1	86.5
16	455.7	149.2	151.2	150.7	156.8	156.6	156.6	152.0	72.7	43.6	78.8	77.3	82.9	80.5
17	108.3	106.0	117.4	115.0	110.2	108.0	108.0	108.0	30.5	11.9	68.0	69.3	67.4	67.1
18	25.7	26.5	26.5	24.9	23.1	24.7	29.1	21.6	21.7	23.0	26.1	25.8	27.0	25.8
19	61.0	96.2	61.8	60.3	100.0	56.4	58.6	175.4	175.8	91.3	55.9	56.7	60.7	59.1
20	164.2	163.4	185.4	183.8	51.0	90.0	90.0	86.2	86.7	83.8	68.0	66.9	74.5	69.5
21	–	–	66.5	65.0	55.8	57.2	57.2	50.1	50.2	45.7	50.7	50.7	44.4	43.8
22	–	–	59.9	58.4	59.6	71.3	71.3	60.9	60.9	63.3	13.9	13.2	–	–
23	–	–	–	–	–	175.7	175.7	–	–	–	–	–	–	–
24	–	–	–	–	–	69.0	69.0	–	–	–	–	–	–	–
1-OAc	–	–	–	–	–	–	–	–	–	–	171.2	–	–	170.9
	–	–	–	–	–	–	–	–	–	–	22.1	–	–	21.9
15-OAc	–	–	–	–	169.5	–	–	–	–	–	–	171.8	–	–
	–	–	–	–	24.3	–	–	–	–	–	–	21.2	–	–

253: 6-OAc: 170.4, 21.3; 7-OAc: 170.4, 20.6.

257: 69.4 (C-1'), 53.7 (C-2'), 31.6 (C-3'), 210.9 (C-4'), 31.6 (C-5'), 53.7 (C-6'), 29.1 (C-7'), 20.1 (C-8'), 20.1 (C-9').

263: 17-OBz: 166.6 (COO), 131.6 (C-1'), 130.1 (C-2',6'), 128.7 (C-3',5'), 133.0 (C-4').

266: 13-OAc: 172.6, 21.8.

Table S2 (*Contd.*)

Carbon	**266**[119]	**267**[120]	**268**[112]	**269**[127]	**270**[127]	**271**[70]	**272**[117]	**273**[122]	**274**[122]	**275**[70]	**276**[123]	**277**[124]	**278**[102]	**279**[85]
1	27.5	71.3	41.2	73.8	74.6	26.4	27.2	70.7	70.3	26.3	26.3	68.3	30.2	31.1
2	23.9	31.8	23.1	26.7	27.0	20.3	21.2	31.4	30.7	20.5	20.3	24.6	19.1	23.1
3	38.9	39.7	33.2	37.6	37.9	34.5	35.0	38.2	32.4	39.9	39.6	29.7	40.5	75.3
4	34.6	34.6	39.3	34.5	34.3	44.1	44.8	33.6	38.4	34.0	33.9	37.7	33.0	43.5
5	54.3	54.3	38	49.9	50.2	48.7	49.4	51.8	46.6	51.9	51.8	49.4	59.2	62.8
6	24.1	24.5	28.8	23.4	23.1	24.6	24.9	23.4	23.0	23.1	21.9	24.7	100.0	97.7
7	40.4	43.5	40.9	44.4	44.5	47.6	49.1	43.8	43.8	41.9	41.1	45.8	27.2	45.2
8	44.5	44.9	38.7	49.0	49.9	44.7	45.5	43.6	43.5	43.3	42.0	45.3	39.3	42.8
9	42.9	51.8	50.1	38.3	36.7	57.2	55.9	41.6	41.6	43.9	46.3	38.3	44.6	49.2
10	48.5	52.1	50.5	50.2	50.3	45.0	45.8	50.8	50.6	45.0	45.7	49.7	46.1	48.6
11	72.1	72.3	27.5	29.0	28.5	71.4	73.1	23.9	23.8	22.8	66.7	23.5	30.0	69.5
12	39.9	46.2	38	48.3	47.7	46.6	48.3	38.8	38.7	38.7	45.4	38.6	35.5	40.0
13	75.7	21.6	27.5	75.1	75.7	23.6	25.5	71.2	71.0	71.5	69.3	71.1	34.3	74.0
14	41.1	28.3	29.1	29.8	30.1	27.3	28.4	36.3	36.4	36.4	36.4	35.8	37.1	50.5
15	87.2	86.4	77.8	77.2	77.6	77.1	77.3	76.6	76.4	76.9	75.1	76.8	74.5	33.6
16	82.2	80.3	156.7	153.0	159.2	147.3	155.3	64.3	64.3	64.5	62.7	64.1	146.0	148.3
17	67.2	69.2	110.3	110.0	108.6	110.2	109.5	45.5	45.4	45.5	44.1	45.7	109.3	107.5
18	28.2	26.4	20.5	25.8	25.9	21.4	22.0	25.8	68.7	28.3	26.5	18.7	25.2	28.1
19	60.3	58.1	51	57.2	57.4	169.9	168.6	59.1	55.3	59.4	59.2	94.4	57.1	58.4
20	70.7	68.5	60.6	65.0	65.3	71.7	72.2	68.4	68.9	72.8	72.1	70.4	63.5	68.3

21	44.1	52.1	59.6	51.2	50.7	–	–	40.7	40.7	41.8	47.3	41.8	–	–
22	–	13.7	55.8	13.0	13.5	–	–	–	–	–	–	–	–	–
1-OAc	–	–	–	171.1	171.2	–	–	–	–	–	–	–	–	–
	–	–	–	21.7	22.1	–	–	–	–	–	–	–	–	–
13-OAc	–	–	–	–	–	–	–	–	–	170.8	169.8	170.9	–	170.6
	–	–	–	–	–	–	–	–	–	21.3	21.2	21.4	–	21.2
15-OAc	–	–	–	170.8	–	170.6	–	–	–	–	–	–	–	–
	–	–	–	22.0	–	21.7	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	13-OnBu	13-OnBu	–	–	–	–	–
1'	–	–	–	–	–	–	–	173.2	173.3	–	–	–	–	–
2'	–	–	–	–	–	–	–	36.5	36.1	–	–	–	–	–
3'	–	–	–	–	–	–	–	18.3	18.2	–	–	–	–	–
4'	–	–	–	–	–	–	–	13.7	13.6	–	–	–	–	–

266: 13-OAc: 172.6, 21.8.

Table S2 (*Contd.*)

Carbon	**280**[126]	**281**[101]	**282**[72]	**283**[127]	**284**[127]	**285**[49]	**286**[58]	**287**[107]	**288**[107]	**289**[128]	**290**[58]	**291**[58]	**292**[58]	**293**[172]
1	54.1	28.8	27.8	25.6	29.9	31.3	70.3	35.4	35.5	27.4	31.8	31.7	31.8	31.8
2	51.9	71.2	70.2	74.5	70.9	65.5	68.5	33.9	33.8	20.4	68.7	68.6	68.6	71.2
3	212.6	74.7	38.7	71.6	38.9	42.6	33.2	36.9	36.9	34.8	36.5	36.4	36.5	37.4
4	42.3	43.0	36.0	42.1	37.2	35.9	41.7	42.2	42.2	50.9	40.8	40.6	40.6	38.3
5	54.1	61.6	55.3	54.5	57.3	57.8	55.6	61.2	60.8	62.4	58.7	56.5	56.4	60.9
6	98.0	97.0	97.2	104.5	104.5	102.0	61.6	60.5	59.8	63.1	66.8	69.3	69.4	64.2
7	33.8	41.0	40.6	75.2	75.1	71.0	34.3	69.8	69.5	33.4	32.0	67.4	67.3	32.8
8	45.4	46.7	45.0	48.5	48.4	47.7	44.9	44.7	44.6	47.9	44.7	52.0	51.9	45.2
9	47.9	47.1	47.8	48.8	48.9	39.1	51.9	49.6	50.0	56.5	55.7	50.0	50.1	54.5
10	56.3	48.1	50.5	46.8	46.8	46.5	54.2	50.3	50.3	44.2	52.2	50.1	50.2	47.4
11	38.8	70.2	72.3	22.6	22.6	22.1	75.5	75.6	75.2	24.1	74.0	73.8	73.8	76.0
12	40.8	42.9	41.1	43.9	43.8	47.1	49.5	44.6	48.2	43.2	48.5	48.7	48.7	53.1
13	72.1	21.6	30.6	70.0	70.0	72.3	70.3	73.4	74.1	74.5	73.2	73.1	73.2	80.5
14	40.9	48.0	78.5	43.2	43.3	44.9	50.3	53.0	55.0	44.2	45.7	44.3	44.3	81.3
15	29.9	70.6	34.3	29.9	29.6	29.6	33.4	29.9	31.9	71.8	33.2	30.3	30.2	31.5
16	145.6	148.5	145.6	148.3	148.2	145.7	144.9	142.6	142.0	151.1	145.6	145.6	145.6	146.7
17	108.4	111.2	108.9	108.3	108.3	108.3	109.4	110.4	109.4	113.5	109.3	109.4	109.3	108.2
18	30.1	27.1	31.3	27.2	30.1	30.4	22.0	22.5	22.7	23.2	22.3	22.1	22.1	30.2
19	62.4	57.8	61.7	71.0	72.5	61.4	92.5	91.1	91.5	92.9	101.0	102.4	102.6	63.7
20	66.0	66.8	65.1	75.0	75.2	67.8	62.5	64.9	64.9	69.0	73.6	72.9	73.0	70.0
21	–	–	–	40.8	40.7	–	–	–	–	–	34.6	35.5	35.5	–
2-OAc	–	–	169.7	–	–	–	–	–	–	–	–	–	–	171.9
	–	–	22.1	–	–	–	–	–	–	–	–	–	–	21.8
11-OAc	–	–	170.1	–	–	–	–	169.7	–	–	169.9	–	–	–
	–	–	21.1	–	–	–	–	21.3	–	–	21.3	–	–	–
	–	–	–	2-OBz	2-OBz	–	2-OBz	–	–	–	–	–	–	–
COO	–	–	–	166.9	167.2	–	165.5	–	–	–	–	–	–	–

1'	–	–	–	131.3	131.6	–	130.8	–	–	–	–	–	–	–
2'	–	–	–	130.0	130.4	–	130.4	–	–	–	–	–	–	–
3'	–	–	–	130.0	129.9	–	129.6	–	–	–	–	–	–	–
4'	–	–	–	134.5	134.3	–	134.2	–	–	–	–	–	–	–
5'	–	–	–	130.0	129.6	–	130.4	–	–	–	–	–	–	–
6'	–	–	–	130.0	130.4	–	129.6	–	–	–	–	–	–	–
	13-OiBu	–	–	–	–	–	–	7-OiBu	7-OiBu	–	–	–	2-OiBu	–
1'	176.7	–	–	–	–	–	–	175.6	175.6	–	–	–	176.7	–
2'	33.8	–	–	–	–	–	–	34.4	34.4	–	–	–	34.5	–
3'	18.8	–	–	–	–	–	–	18.6	18.6	–	–	–	19.1	–
4'	19.0	–	–	–	–	–	–	18.9	19.3	–	–	–	20.0	–

281: 2-OMeBu: 177.3 (C-1'), 41.9 (C-2'), 26.8 (C-3'), 11.9 (C-4'), 16.8 (C-5'); 15-OMeBu: 176.8 (C-1''), 41.6 (C-2''), 26.7 (C-3''), 11.8 (C-4''), 17.0 (C-5'').

285: 6-OMe: 52.6; 7-OAc: 171.0, 20.8.

286: 1-OAc: 170.5, 21.2; 13-OAc: 171.2, 20.7.

288: 13-OAc: 170.4, 21.3.

290: 3-OMeBu: 176.0 (C-1'), 41.6 (C-2'), 26.8 (C-3'), 11.7 (C-4'), 17.2 (C-5'); 2-OPr: 173.9 (C-1''), 28.1 (C-2''), 9.1 (C-3'').

291: 3-OMeBu: 176.0 (C-1'), 41.5(C-2'), 26.8 (C-3'), 11.7 (C-4'), 17.4 (C-5'); 2-OPr: 173.9 (C-1''), 28.1 (C-2''), 9.1 (C-3'').

292: 3-OMeBu: 176.0 (C-1'), 41.5(C-2'), 26.8 (C-3'), 11.7 (C-4'), 17.4 (C-5').

Table S2 (*Contd.*)

Carbon	**294**[122]	**295**[129]	**296**[131]	**297**[127]	**298**[130]	**299**[131]	**300**[131]	**301**[131]	**302**[131]	**303**[102]	**304**[132]	**305**[133]	**306**[133]	**307**[126]
1	29.8	29.8	32.3	33.5	31.5	34.1	32.2	31.3	43.5	69.8	66.4	31.3	31.0	55.7
2	66.6	66.0	67.3	66.0	63.7	67.1	67.2	70.3	211.4	49.1	74.1	69.9	69.9	51.4
3	73.8	33.1	40.5	39.5	38.6	40.3	40.3	36.6	49.9	44.2	33.1	36.6	36.6	209.0
4	47.6	40.7	36.9	36.6	35.1	36.7	36.7	36.6	42.4	41.9	36.9	36.5	36.5	42.2
5	61.6	55.6	61.5	60.5	55.3	61.7	61.3	61.4	60.1	55.3	57.3	61.3	61.3	50.2
6	60.3	67.7	64.5	64.8	64.9	64.3	64.3	64.2	65.0	65.1	64.6	64.2	64.2	58.2
7	33.9	69.9	36.3	34.7	31.8	36.3	36.1	36.1	35.6	33.2	36.3	36.1	36.1	25.4
8	42.7	48.1	44.1	41.9	47.2	43.8	44.0	44.0	44.7	41.9	43.4	43.9	43.9	41.1
9	59.2	52.2	53.4	49.3	48.7	55.4	53.3	55.2	52.4	54.6	53.6	50.2	50.2	48.9
10	47.2	50.1	50.6	47.5	42.8	50.6	50.5	50.5	55.0	50.8	56.3	50.4	50.4	47.9
11	63.7	73.9	76.2	22.4	65.9	75.9	76.0	75.3	75.2	74.6	75.4	74.2	74.3	47.7
12	61.6	45.2	45.5	52.8	62.0	48.9	45.2	48.5	44.6	59.8	50.4	48.3	48.3	38.7
13	208.6	72.6	72.9	211.9	208.3	74.3	72.7	74.4	71.9	71.0	72.1	75.2	75.2	73.5
14	60.4	43.4	50.6	61.5	63.1	50.5	50.3	50.3	49.8	51.6	52.2	55.2	55.2	43.2
15	32.7	28.0	34.2	33.4	31.6	34.0	34.0	33.9	33.4	35.5	34.0	33.9	33.9	35.3
16	137.5	139.4	144.2	142.8	140.0	145.1	143.9	144.7	142.9	146.6	145.4	144.5	144.6	146.4
17	115.7	112.7	109.6	110.4	112.0	108.6	109.5	108.8	110.1	106.5	108.4	108.9	108.9	107.1
18	18.7	22.6	59.9	29.3	28.2	29.8	29.7	29.6	28.4	27.4	29.6	29.5	29.5	29.7
19	88.1	103.2	63.9	63.2	59.4	63.7	63.7	63.5	64.5	63.8	63.3	63.2	91.6	63.0
20	68.0	72.6	68.7	70.2	67.1	68.8	68.5	68.9	70.2	65.1	66.1	68.9	68.8	69.0
2-OAc	169.6	–	–	–	–	–	–	–	–	–	–	–	–	–
	21.3	–	–	–	–	–	–	–	–	–	–	–	–	–

11-OAc	–	170.1	170.8	–	–	–	170.7	170.0	170.4	–	–	170.0	169.9	–
	–	21.3	21.6	–	–	–	21.4	21.9	21.2	–	–	21.5	21.4	–
	–	2-OiBu	13-OiBu	–	–	13-OiBu	13-OMeBu	–	13-OiBu	–	–	2-OMeBu	2-OiBu	13-OiBu
1'	–	175.9	176.6	–	–	176.3	176.0	–	176.3	–	–	175.8	176.2	176.2
2'	–	33.1	34.2	–	–	33.9	41.2	–	33.8	–	–	41.3	30.9	34.0
3'	–	18.0	19.3	–	–	19.4	26.5	–	19.3	–	–	26.2	19.3	19.0
4'	–	19.1	18.8	–	–	18.8	11.7	–	18.7	–	–	11.6	18.6	19.0
5'	–	–	–	–	–	–	16.8	–	–	–	–	16.7	–	–

294: 3-OBz: 165.4 (COO), 129.7 (C-1'), 129.6 (C-2',6'), 128.3 (C-3',5'), 133.0 (C-4').

295: 13-OBz: 166.0(COO), 129.0 (C-1'), 129.8 (C-2',6'), 128.8 (C-3',5'), 134.0 (C-4'); 19-OMe: 37.8.

301: 13-OAc: 169.8, 21.1.

Table S2 (*Contd.*)

Carbon	**308**[85]	**309**[175]	**310**[130]	**311**[134]	**312**[130]	**313**[101]	**314**[132]	**315**[132]	**316**[135]	**317**[136]	**318**[137]	**319**[85]	**320**[138]	**321**[139]
1	45.1	29.4	35.3	29.7	30.8	31.0	30.8	30.7	29.3	28.2	65.7	72.6	32.5	70.6
2	50.0	69.6	68.4	69.1	68.4	68.7	20.8	20.8	22.0	20.5	73.7	67.2	69.0	66.8
3	212.0	36.5	28.6	37.2	36.0	74.0	31.1	31.1	31.7	30.5	29.8	73.0	34.4	29.7
4	42.4	37.6	35.5	37.1	33.9	42.6	45.1	45.1	46.6	44.9	44.4	49.9	44.4	43.8
5	60.6	59.5	55.2	59.3	53.8	61.6	72.4	72.5	73.1	72.2	56.3	59.4	60.4	55.8
6	65.2	63.2	69.3	63.2	72.7	62.7	31.8	31.8	32.7	31.6	62.9	63.7	59.9	60.4
7	35.9	31.8	27.5	29.5	28.0	31.8	27.9	27.9	32.3	31.0	63.3	68.4	71.2	62.7
8	44.6	44.6	45.4	46.4	46.5	44.3	44.0	44.0	45.3	43.8	53.8	55.6	49.9	53.7
9	50.0	51.6	58.3	59.9	51.9	80.2	47.0	47.1	48.3	46.4	51.0	49.7	52.8	47.7
10	55.3	45.9	43.0	43.4	43.9	46.3	45.5	45.4	46.9	45.3	59.9	56.2	54.0	56.6
11	74.6	76.1	64.3	67.2	73.2	80.3	28.5	28.5	44.3	27.5	74.1	71.2	74.9	73.8
12	48.5	49.9	49.6	51.1	51.9	52.7	31.8	31.8	33.1	35.5	51.5	60.0	47.8	44.9
13	73.0	78.6	75.9	75.9	81.4	76.0	43.4	43.4	28.8	43.4	71.4	208.2	73.9	72.8
14	54.6	80.0	78.9	79.6	82.9	53.3	44.4	44.4	45.9	43.6	40.6	48.8	42.3	37.8
15	33.6	30.8	121.9	125.8	30.0	31.2	131.3	130.6	132.2	132.6	68.5	65.3	30.3	68.1
16	144.4	144.0	137.7	136.5	146.9	144.3	145.7	146.3	147.9	146.3	148.1	144.4	143.0	141.7
17	109.1	108.9	21.8	21.9	106.3	108.7	68.5	68.5	69.3	44.2	111.6	116.8	110.1	116.0
18	28.7	29.6	28.2	29.3	28.9	25.8	19.2	19.1	19.4	18.9	26.9	23.6	25.9	26.2
19	64.6	63.1	59.6	63.1	76.1	59.9	169.9	169.7	173.3	169.6	196.5	194.1	198.3	195.5
20	70.7	68.8	64.8	69.5	70.1	68.9	80.2	80.5	81.4	80.1	63.4	67.7	66.7	63.0
21	–	–	–	–	–	–	–	–	–	–	33.5	35.5	33.5	33.2
1-OAc	–	–	–	–	–	–	–	–	–	–	–	170.1	–	168.9
	–	–	–	–	–	–	–	–	–	–	–	20.7	–	21.3
2-OAc	–	170.9	170.9	–	169.2	170.2	–	–	–	–	–	–	–	–
	–	21.7	21.3	–	21.3	20.9	–	–	–	–	–	–	–	–
3-OAc	–	–	–	–	–	170.6	–	–	–	–	–	170.4	–	–
	–	–	–	–	–	21.5	–	–	–	–	–	20.4	–	–
11-OAc	–	170.4	–	–	–	–	–	–	–	–	–	170.6	–	170.9
	–	21.6	–	–	–	–	–	–	–	–	–	21.3	–	21.5

	13-OMeBu	–	–	13-OiBu	–	–	–	–	–	–	15-OMeBu	–	2-OiBu	–
1'	176.0	–	–	176.2	–	–	–	–	–	–	176.4	–	177.0	–
2'	41.2	–	–	34.3	–	–	–	–	–	–	41.7	–	34.5	–
3'	26.5	–	–	18.9	–	–	–	–	–	–	27.0	–	19.0	–
4'	11.5	–	–	18.9	–	–	–	–	–	–	11.7	–	19.1	–
5'	16.4	–	–	–	–	–	–	–	–	–	16.8	–	–	–

314: 67.6 (C-2'), 29.0 (C-3'), 126.7 (C-4'), 130.1 (C-5', 9'), 115.7 (C-6', 8'), 158.3 (C-7'), 53.7 (C-10', 11', 12').

315: 61.9 (C-2'), 33.6 (C-3'), 132.6 (C-4'), 129.5 (C-5', 9'), 114.8 (C-6', 8'), 157.4 (C-7'), 45.6 (C-10', 11').

314: 67.6 (C-2'), 29.0 (C-3'), 126.7 (C-4'), 130.1 (C-5', 9'), 115.7 (C-6', 8'), 158.3 (C-7'), 53.7 (C-10', 11', 12').

315: 61.9 (C-2'), 33.6 (C-3'), 132.6 (C-4'), 129.5 (C-5', 9'), 114.8 (C-6', 8'), 157.4 (C-7'), 45.6 (C-10', 11').

316: 68.8 (C-2'), 29.6 (C-3'), 128.8 (C-4'), 131.2 (C-5', 9'), 116.5 (C-6', 8'), 159.8 (C-7'), 53.7 (C-10').

317: 40.0 (C-1'-Me), 54.5 (C-2'), 35.9 (C-3'), 46.9 (C-3'a), 156.0 (C-4'), 125.7 (C-5'), 197.5 (C-6'), 37.2 (C-7'), 69.8 (C-7'a).

318: 2-OBz: 165.9 (COO), 131.4 (C-1'), 130.0 (C-2',6'), 128.7 (C-3',5').

320: 7-OAc: 170.0, 21.0; 13-OMeBu: 175.7 (C-1''), 41.1 (C-2''), 26.3 (C-3''), 11.5 (C-4''), 16.6 (C-5'').

Table S2 (*Contd.*)

Carbon	**322**[132]	**323**[126]	**324**[85]	**325**[85]	**326**[85]	**327**[137]	**328**[137]	**329**[137]	**330**[137]	**331**[105]	**332**[105]	**333**[167]	**334**[141]	**335**[141]
1	69.9	69.8	71.8	71.5	73.1	69.4	69.4	69.1	69.1	74.0	72.5	70.7	68.7	68.6
2	66.7	66.5	66.1	67.6	67.0	67.7	67.8	67.6	67.9	27.9	27.0	31.2	31.4	32.1
3	29.6	65.1	71.8	78.1	73.1	29.2	29.5	29.2	29.5	33.2	34.5	38.4	35.3	35.8
4	43.8	51.8	49.2	49.0	49.7	43.8	43.8	43.7	43.6	45.4	40.2	33.6	47.1	47.2
5	56.8	56.6	59.7	58.8	60.0	55.5	55.6	57.0	57.1	46.3	47.6	52.6	44.4	44.8
6	59.6	58.7	59.8	62.5	63.1	60.7	60.6	59.4	59.4	24.8	24.9	23.2	26.1	25.7
7	70.6	29.5	69.9	70.5	69.3	62.4	62.5	68.6	68.6	50.6	50.6	42.2	52.2	51.6
8	50.9	43.8	51.5	53.2	55.5	53.7	53.5	51.4	51.2	50.2	48.8	50.9	51.6	51.2
9	47.6	49.1	48.9	48.2	48.8	47.6	47.5	46.4	46.2	38.9	36.8	51.5	38.9	37.7
10	56.2	56.1	55.8	55.1	55.8	56.9	56.7	56.7	56.5	49.6	48.6	42.9	54.7	53.8
11	73.1	73.2	73.4	76.4	74.3	72.4	71.6	75.5	75.8	28.7	29.2	20.2	30.2	38.2
12	44.0	44.9	44.5	44.5	44.5	44.4	44.3	40.8	40.6	74.8	74.1	70.9	76.5	211.2
13	73.1	72.7	72.4	72.5	72.7	73.3	72.5	74.0	72.2	49.2	47.6	45.4	48.6	55.0
14	40.5	39.0	37.1	37.2	37.0	37.3	37.4	42.5	42.8	30.1	27.4	27.6	28.9	32.0
15	71.1	66.0	65.5	66.0	65.1	67.8	67.9	124.4	124.1	76.3	75.5	86.1	77.3	76.8
16	142.3	141.7	141.7	141.3	143.7	141.1	141.3	142.9	143.1	159.4	158.3	77.6	158.5	150.7
17	118.3	115.3	118.7	118.9	114.7	116.6	116.2	62.4	62.5	108.2	107.8	69.5	109.6	112.6
18	26.5	26.2	23.2	22.6	23.2	26.4	26.3	26.5	26.3	21.7	21.3	25.9	21.2	21.0
19	196.6	196.0	193.3	193.0	194.0	196.9	195.3	197.2	196.5	169.1	174.7	56.8	184.8	185.2
20	63.7	63.5	63.3	63.3	64.9	62.9	63.0	63.4	63.4	66.2	58.2	66.8	70.7	70.5
21	33.5	33.3	34.0	35.4	35.0	33.5	33.8	33.7	33.9	–	–	50.9	58.2	58.3
22	–	–	–	–	–	–	–	–	–	–	–	13.4	14.1	14.2
1-OAc	171.1	169.8	169.6	170.2	170.3	169.6	169.6	169.5	169.7	170.7	170.6	–	–	–
	21.6	21.6	20.4	20.5	20.3	21.4	21.3	21.3	21.3	22.3	21.6	–	–	–
3-OAc	–	169.6	169.4	169.4	170.3	–	–	–	–	–	–	–	–	–
	–	21.3	20.8	20.8	20.4	–	–	–	–	–	–	–	–	–
7-OAc	169.5	–	170.1	–	–	–	–	170.1	170.1	–	–	–	–	–

	21.2	–	21.0	–	–	–	–	21.1	21.1	–	–	–	–	–
11-OAc	169.8	170.7	170.7	171.8	170.8	–	–	–	–	–	–	–	–	–
	21.2	20.9	21.1	21.3	21.3	–	–	–	–	–	–	–	–	–
15-OAc	171.1	170.7	170.7	170.7	–	–	–	–	–	–	–	171.9	–	–
	21.6	20.9	21.0	21.4	–	–	–	–	–	–	–	21.4	–	–
2-COO	164.7	164.5	164.0	164.2	164.9	165.2	165.1	165.1	165.1	–	–	–	–	–
1'	128.4	129.0	129.0	129.0	129.0	129.9	129.9	129.9	129.8	–	–	–	–	–
2'	129.5	129.4	129.4	129.6	129.4	129.6	129.6	129.6	129.6	–	–	–	–	–
3'	128.5	128.5	128.3	128.3	128.6	128.5	128.6	128.6	128.6	–	–	–	–	–
4'	133.5	133.3	133.3	133.3	133.7	133.3	133.4	133.4	133.4	–	–	–	–	–
5'	128.5	128.5	128.3	128.3	128.6	128.5	128.6	128.6	128.6	–	–	–	–	–
6'	129.5	129.5	129.4	129.6	129.4	129.6	129.6	129.6	129.6	–	–	–	–	–
13-COO	166.0	165.7	165.6	156.6	165.9	–	–	–	–	–	–	–	–	–
1"	129.6	129.0	129.0	129.0	129.0	–	–	–	–	–	–	–	–	–
2"	129.4	129.3	129.3	129.1	129.1	–	–	–	–	–	–	–	–	–
3"	128.3	128.3	128.3	128.4	128.4	–	–	–	–	–	–	–	–	–
4"	133.1	133.3	133.3	133.3	133.3	–	–	–	–	–	–	–	–	–
5"	128.3	128.3	128.3	128.4	128.4	–	–	–	–	–	–	–	–	–
6"	129.4	129.3	129.3	129.1	129.1	–	–	–	–	–	–	–	–	–

322: 15-OiBu: 179.1 (C-1'''), 34.4 (C-2'''), 19.4 (C-3'''), 18.9 (C-4''').

327: 11-OCOH: 159.5; 13-OHmp: 176.8 (C-1''), 71.9 (C-2''), 26.5 (C-3''), 27.1 (C-4''); 15-OMeBu: 178.4 (C-1'''), 41.6 (C-2'''), 26.6 (C-3'''), 11.8 (C-4'''), 16.7 (C-5''').

328: 11-OCOH: 159.6; 13-OMp: 176.2 (C-1''), 33.3 (C-2''), 18.2 (C-3''), 18.7 (C-4''); 15-OMeBu: 178.5 (C-1'''), 41.6 (C-2'''), 26.6 (C-3'''), 11.8 (C-4'''), 16.8 (C-5''').

329: 11-OCOH: 159.9; 13-OHmp: 176.9 (C-1''), 71.9 (C-2''), 26.6 (C-3''), 27.1 (C-4'').

330: 11-OCOH: 159.9; 13-OMp: 176.3 (C-1''), 33.5 (C-2''), 18.3 (C-3''), 18.6 (C-4'').

333: 17-OBz: 166.4 (COO), 130.0 (C-1'), 129.6 (C-2',6'), 128.5 (C-3',5'), 133.1 (C-4').

Table S2 (*Contd.*)

Carbon	**336**[141]	**337**[142]	**338**[142]	**339**[142]	**340**[142]	**341**[125]	**342**[145]	**343**[146]	**344**[146]	**345**[109]	**346**[101]	**347**[134]	**348**[131]	**349**[152]	**352**[152]
1	69.2	36.2	36.2	36.5	36.7	72.3	69.3	70.2	71.2	23.2	33.2	28.2	31.3	40.5	32.4
2	30.9	65.6	65.2	65.4	65.6	29.5	33.1	30.9	31.8	26.6	67.3	69.1	71.0	21.1	23.7
3	35.5	43.6	43.6	43.1	43.0	31.0	37.7	39.1	39.5	72.9	74.3	37.1	36.8	33.7	31.3
4	47.6	36.3	36.7	36.6	36.7	32.8	37.7	33.7	33.6	47.7	47.6	37.1	36.3	43.3	49.6
5	44.8	75.8	76.1	76.4	76.5	46.2	49.0	62.5	57.2	53.5	54.9	57.1	60.4	45.7	47.0
6	26.1	73.5	73.4	70.3	70.5	24.9	25.4	74.1	75.3	58.6	61.1	63.2	64.5	26.6	25.4
7	52.5	40.7	41.3	43.9	44.2	44.0	46.1	94.9	94.0	31.2	33.5	32.6	37.7	31.0	30.7
8	52.4	49.9	49.9	49.8	50.1	78.4	44.5	33.2	63.6	39.6	44.4	39.7	48.1	38.3	37.7
9	46.3	53.5	53.3	54.4	54.6	48.8	51.4	50.0	55.5	76.5	59.1	51.9	59.2	43.3	40.1
10	55.0	53.1	52.8	52.3	52.5	46.7	54.9	49.0	48.4	51.7	47.1	43.8	47.6	37.5	44.2
11	73.0	69.9	70.0	70.4	70.9	48.7	44.1	78.6	24.2	38.7	201.0	93.2	51.9	23.2	21.6
12	83.5	72.8	72.8	73.0	72.9	35.4	210.8	28.5	31.2	35.9	124.6	35.5	71.7	150.4	148.7
13	49.3	53.6	53.7	53.7	53.7	35.7	60.7	33.0	44.0	150.3	196.1	73.9	66.4	124.1	122.4
14	29.5	54.8	54.2	54.8	55.0	82.7	33.8	32.5	73.4	32.7	58.5	74.0	56.7	33.3	31.4

15	76.9	39.3	39.5	39.8	39.9	33.1	158.6	165.6	210.8	49.2	36.3	37.9	36.6	110.9	110.1
16	158.2	148.2	148.8	149.1	149.2	32.7	191.6	141.1	153.6	31.2	158.5	69.7	150.8	142.3	141.3
17	109.8	109.4	109.0	108.8	109.9	66.5	141.6	127.9	119.7	216.9	24.6	28.1	107.8	18.2	19.0
18	21.2	23.2	23.3	23.8	23.6	27.5	26.9	30.8	31.0	55.3	18.8	29.4	29.9	175.9	175.2
19	184.8	64.6	64.4	63.4	63.4	60.3	59.5	24.6	23.7	25.6	88.4	63.8	62.8	165.2	89.5
20	70.4	70.4	70.1	68.9	68.9	63.1	66.8	168.9	169.3	117.6	63.9	72.7	67.6	55.6	163.7
21	58.2	47.3	47.7	44.6	44.6	48.1	57.2	–	–	33.3	–	–	–	–	–
22	14.1	–	–	–	–	13.0	12.4	–	–	103.4	–	–	–	–	–
1-OAc	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2-OAc	–	–	–	–	–	–	–	–	–	–	169.8	169.8	–	–	–
	–	–	–	–	–	–	–	–	–	–	21.6	21.6	–	–	–

337: 6-OAc: 169.0, 21.8; 166.2 (C-1'), 128.6 (C-2'), 138.4 (C-3'), 14.4 (C-4'), 11.6 (C-5'); 167.6 (C-1''), 128.1 (C-2''), 139.6 (C-3''), 14.7 (C-4''), 12.3 (C-5'').

338: 6-OAc: 169.7, 21.7; 166.7 (C-1'), 127.1 (C-2'), 144.1 (C-3'), 59.2 (C-4'), 12.4 (C-5'); 167.5 (C-1''), 128.6 (C-2''), 139.9 (C-3''), 14.3 (C-4''), 12.3 (C-5'').

329: 166.4 (C-1'), 127.1 (C-2'), 144.0 (C-3'), 59.4 (C-4'), 12.7 (C-5'); 167.3 (C-1''), 128.4 (C-2''), 139.7 (C-3''), 14.6 (C-4''), 12.6 (C-5'').

340: 165.5 (C-1'), 130.7 (C-2'), 130.0 (C-3'), 129.0 (C-4'), 134.0 (C-5'), 129.0 (C-6'), 130.0 (C-7'); 167.3 (C-1''), 128.5 (C-2''), 139.9 (C-3''), 14.6 (C-4''), 12.6 (C-5'').

346: 3-OBz: 165.5 (COO), 129.8 (C-1'), 129.7 (C-2',6'), 128.5 (C-3',5'), 133.2 (C-4').

348: 134.1 (C-1'), 129.5 (C-2'), 128.9 (C-3'), 127.3 (C-4'), 128.9 (C-5'), 129.5 (C-6'), 42.4 (C-7'), 170.9 (C-8').

349: 53.1 (18-OMe).

352: 34.1 (C-1'), 19.1 (C-2'), 36.7 (C-3'), 47.0 (C-4'), 49.7 (C-5'), 29.7 (C-6'), 36.7 (C-8'), 45.3 (C-9'), 40.6 (C-10'), 22.6 (C-11'), 150.0 (C-12'), 122.1 (C-13'), 140.9 (C-16'), 18.0 (C-17'), 178.7 (C-18'), 17.5 (C-19'), 66.6 (C-20'), 52.1 (18'-OMe).

Table S2 (*Contd.*)

Carbon	**353**[153]	**354**[154]	**355**[154]	**356**[19]	**357**[155]	**358**[155]	**359**[155]	**360**[135]	**361**[135]	**362**[155]	**363**[156]	**364**[156]
1	23.5	69.3	71.4	31.6	31.5	31.5	31.5	45.1	30.9	29.5	31.1	30.6
2	23.0	24.9	24.8	68.7	69.7	69.8	69.7	212.2	71.8	19.5	28.3	28.3
3	38.7	38.0	47.5	28.4	28.3	28.2	28.3	50.5	37.4	34.0	30.6	30.3
4	35.8	37.8	33.7	37.6	37.4	36.5	37.4	42.6	37.0	37.8	44.9	44.9
5	54.0	51.9	49.2	60.1	59.8	61.3	59.8	61.0	61.9	61.7	44.5	44.2
6	25.7	25.9	19.5	63.0	63.0	64.1	63.0	65.8	65.0	65.3	20.6	20.6
7	34.0	34.0	25.9	31.3	31.8	36.1	31.8	32.2	32.0	33.2	31.7	31.7
8	50.6	49.9	45.1	44.2	44.9	43.7	44.9	46.0	46.0	44.6	43.5	43.6
9	57.5	55.5	40.3	52.2	52.5	54.0	52.5	54.1	54.5	31.5	47.1	46.9
10	47.0	47.1	37.0	46.2	46.0	50.3	46.0	55.7	51.1	49.8	45.3	45.2
11	71.2	29.7	28.2	82.1	81.0	81.3	81.0	82.2	82.8	29.4	29.6	29.4
12	34.4	34.4	34.4	48.6	44.6	43.1	44.6	48.2	48.7	50.1	31.9	32.0
13	31.3	31.9	31.3	79.8	80.8	73.5	80.8	71.1	71.2	31.6	43.3	43.3
14	31.1	31.0	31.0	80.1	78.6	49.9	78.6	52.8	53.2	48.5	72.3	72.4
15	135.3	135.4	136.3	31.0	30.9	33.9	30.9	34.2	34.6	126.9	128.0	130.5
16	141.2	140.9	140.9	144.7	143.8	144.7	143.8	148.5	148.8	145.1	147.3	146.2
17	72.6	72.6	72.7	108.1	109.2	108.8	109.2	107.0	106.8	61.3	60.5	61.7

18	26.0	18.8	26.1	29.7	29.5	29.4	29.5	28.6	29.7	27.2	18.9	18.9
19	56.9	92.7	94.3	62.9	62.6	63.2	62.6	65.5	64.6	62.8	169.5	169.5
20	66.8	69.0	58.6	68.8	69.5	68.5	69.5	70.9	68.8	73.9	80.3	80.3
21	50.8	48.7	50.9	–	–	–	–	–	–	–	–	–
22	13.6	14.2	14.4	–	–	–	–	–	–	–	–	–
1'	71.3	71.4	40.3	30.8	30.8	30.8	30.8	28.8	28.8	72.4	72.4	72.8
2'	24.2	24.4	22.2	20.6	20.5	20.5	20.5	21.6	21.6	27.6	27.5	27.6
3'	47.5	47.5	23.4	30.6	30.5	30.5	30.5	31.2	31.2	31.3	31.3	30.8
4'	33.2	35.8	35.8	44.9	44.7	44.8	44.7	45.5	45.5	33.1	33.1	32.9
5'	49.1	49.2	54.4	72.4	72.4	72.2	72.4	71.8	71.9	51.3	51.4	53.4
6'	19.4	19.4	25.9	36.9	36.7	36.7	36.7	36.7	37.0	72.0	72.2	72.4
7'	25.9	25.8	34.0	27.7	27.5	27.5	27.5	28.0	28.1	44.5	44.7	46.0
8'	45.5	46.4	47.1	43.8	43.6	43.6	43.6	44.2	44.2	79.2	79.4	82.1
9'	40.0	46.5	58.5	47.0	46.9	46.9	46.9	47.6	47.6	48.0	48.0	48.3
10'	36.9	36.9	45.7	45.3	45.2	45.2	45.2	45.0	44.2	40.1	40.2	40.5
11'	48.7	48.5	48.7	43.2	43.1	43.1	43.1	43.6	43.7	49.4	49.6	49.7
12'	36.0	36.0	36.0	31.8	31.6	31.6	31.6	32.2	32.3	30.4	30.4	29.8
13'	28.1	28.2	27.2	31.9	30.9	30.6	30.6	31.8	31.9	74.2	74.3	74.3
14'	31.0	30.8	29.7	44.3	44.2	44.2	44.2	45.1	45.2	172.3	172.3	172.6
15'	76.3	76.4	76.4	130.9	129.9	129.7	129.9	130.4	130.4	34.2	31.4	31.6
16'	157.2	157.2	157.3	146.7	147.2	147.3	147.2	148.1	148.1	30.6	30.6	29.8
17'	108.8	108.9	108.8	70.3	69.9	69.9	69.9	70.3	70.4	64.2	64.2	64.0
18'	26.1	26.1	26.6	19.0	18.9	18.9	18.9	19.5	19.6	28.8	27.2	27.5
19'	94.2	94.2	57.3	169.5	169.5	169.5	169.5	169.3	169.3	61.5	61.5	62.2
20'	58.6	58.6	71.4	80.4	80.2	80.2	80.2	80.9	81.0	48.4	48.4	48.5
21'	55.9	55.9	56.0	–	–	–	–	–	–	13.0	13.0	13.0
22'	68.0	68.1	67.9	–	–	–	–	–	–	–	–	–
13-OAc	–	–	–	–	169.9	170.3	169.9	–	–	–	–	–
	–	–	–	–	21.2	21.3	21.2	–	–	–	–	–
6'-OAc	–	–	–	–	–	–	–	–	–	170.9	170.0	–
	–	–	–	–	–	–	–	–	–	21.7	21.7	–

356: 175.7 (C-1''), 41.5 (C-2''), 26.5 (C-3''), 11.6 (C-4''), 16.6 (C-5'').

357: 175.7 (C-1''), 41.3 (C-2''), 26.2 (C-3''), 11.5 (C-4''), 16.5 (C-5'').

358: 175.7 (C-1''), 41.3 (C-2''), 26.2 (C-3''), 11.5 (C-4''), 16.5 (C-5'').

359: 176.0 (C-1''), 34.2 (C-2''), 18.6 (C-3''), 19.3 (C-4'').

361: 2-OBz: 166.2 (COO), 131.9 (C-1''), 129.9 (C-2'',6''), 128.8 (C-3'',5''), 132.9 (C-4'').