JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
J. Am. Chem. Soc., 1998, 120(34), 8674-8680, DOI:10.1021/ja9810639

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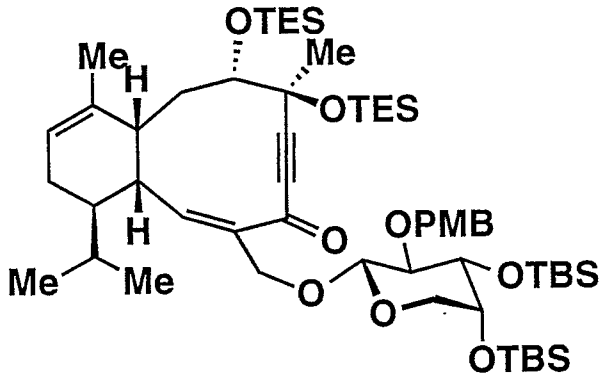
Synthesis of Phenylthioglycoside 12. To a solution of NaH (60% in mineral oil, 0.408 g, 10.2 mmol, 1.2 equiv) in DMF (20 mL) at 0°C was added a solution of **11**[12] (2.55 g, 8.67 mmol, 1.0 equiv) in DMF (30.0 mL), and the reaction mixture was stirred for 30 min at 0 °C, after which PMB-Cl (1.6 mL, 11.0 mmol, 1.1 equiv) was added. The reaction was then stirred at room temperature for 2 h and quenched by addition of saturated NH_4Cl (10 mL), extracted with ether (3 x 50 mL), dried over $MgSO_4$ and concentrated. The crude product was purified by flash chromatography (silica gel, 20% EtOAC in hexanes) to afford acetonide **12** (3.26 g, 93%). R_f = 0.64 (silica, EtOAc-hexane,1:2); $[\alpha]_D^{25}$ +40.4 (c 1.0, $CHCl_3$); FT-IR (neat) ν_{max} 2986, 2934, 1612, 1514, 1379, 1243, 1074, 833, 745 cm^{-1}; ^1H NMR (250 MHz, $CDCl_3$) δ 7.53-7.49 (m, 2 H), 7.33 (d, J = 8.5 Hz, 2 H), 7.28-7.22 (m, 3 H), 6.87 (d, J = 8.5 Hz, 2 H), 4.80 (d, J = 7.5 Hz, 1 H, C-1"), 4.73 (d, J = 11.0 Hz, 1 H), 4.61 (d, J = 11.0 Hz, 1 H), 4.29-4.14 (m, 3 H, C-3", C-4", C-5"), 3.78 (s, 3 H), 3.73 (dd, J = 12.5, 3.5 Hz, 1H, C-5"), 3.61 (dd, J = 7.5, 5.5 Hz, 1 H, C-1"), 1.48 (s, 3 H), 1.36 (s, 3 H); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 131.6, 129.7, 128.7, 127.2, 113.6, 109.7, 86.1, 77.9, 77.6, 72.8, 72.3, 64.4, 55.1, 27.7, 26.0.

Synthesis of Phenylthioglycoside Diol 13. To a solution of acetonide **12** (3.26 g, 8.11 mmol, 1.0 equiv) in MeOH (100 mL) was added ethylene glycol (10 mL). The solution was then chilled to 0 °C, TsOH•H_2O (150 mg, 0.80 mmol, 0.1 equiv) was added and the reaction was warmed to 25 °C and stirred for 5 h. After the reaction was complete (TLC analysis), Et_3N (1.0 mL) was added followed by saturated $NaHCO_3$ solution (30.0 mL). The reaction mixture was then extracted with ethyl acetate (3 x 200 mL), and the combined organic extracts were washed with brine and dried over Na_2SO_4. After concentration, the product was purified by flash chromatography (silica gel, EtOAc in hexanes, 3:2) to afford diol **13** (2.47 g, 84%). R_f = 0.54 (silica gel, EtOAc-hexane, 2:1); $[\alpha]_D^{25}$ - 25.9 (c 1.0, $CHCl_3$); FT-IR (neat) ν_{max} 3369, 2908, 1613, 1514, 1249, 1079, 822 cm^{-1}; ^1H NMR (250 MHz, $CDCl_3$) δ 7.55-7.50 (m, 2 H), 7.31-7.26 (m, 3 H), 7.27 (d, *J* = 8.5 Hz, 2 H), 6.87 (d, *J* = 8.5 Hz, 2 H), 4.83 (d, *J* = 11.0 Hz, 1 H), 4.71 (d, J = 7.5 Hz, 1 H, C-1"), 4.56 (d, J = 11.0 Hz, 1 H), 4.07 (dd, *J* = 12.0, 3.5 Hz, 1 H, C-5"), 3.99-3.95 (m, 1 H, C-4"), 3.79 (s, 3 H), 3.70 (dd, *J* = 7.5, 3.2 Hz, 1 H, C-3"), 3.62 (t, *J* = 7.5 hz, 1 H, C-2"), 3.54 (dd, *J* = 12.0, 2.0 Hz, 1 H, C-5"); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 131.6, 129.9, 129.0, 127.5, 114.1, 87.4, 77.8, 74.3, 73.3, 67.9, 67.6, 55.3.

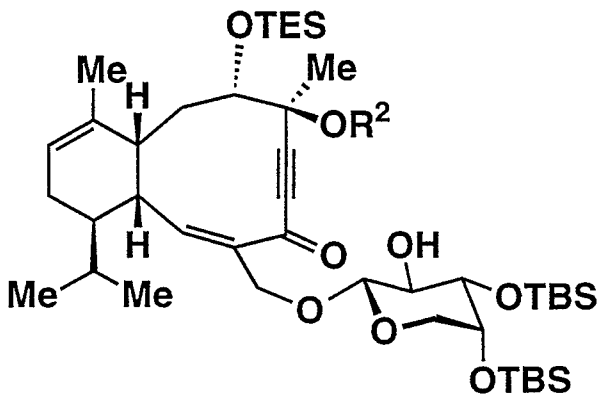
Synthesis of Phenylthioglycoside bis-TBS Ether 14. To a solution of diol **13** (1.26 g, 3.48 mmol, 1.0 equiv) in CH_2Cl_2 (25 mL) at 0 °C was added Et_3N (4.7 mL, 33.5 mmol, 9.6 equiv) followed by TBS-OTf (3.1 mL, 13.5 mmol, 3.9 equiv), and the reaction mixture was stirred at the same temperature for 2 h. After complete (TLC analysis), the reaction was quenced by addition of water (5 mL) and extracted with CH_2Cl_2 (2 x 50 mL). The combined extracts were washed with brine, dried over Na_2SO_4 and concentrated. The crude residue was purified by flash chromatography (silica gel, Et_2O in hexanes, 1:30) to afford silyl ether **14** (2.00 g, 97%). R_f = 0.60 (silica gel, EtOAc-hexane, 1:5); $[\alpha]_D^{25}$ -40.42 (c 1.0, $CHCl_3$); FT-IR (neat) ν_{max} 2930, 2856, 1612, 1514, 1472, 1253, 1109, 840 cm^{-1}; ^1H NMR (250 MHz, $CDCl_3$) δ 7.46-7.40 (m, 2 H), 7.28-7.18 (m, 5 H), 6.86 (d, *J* = 8.5 Hz, 2 H), 5.23 (br, J = 11.2 Hz, 1 H), 4.61 (d, *J* = 10.0 Hz, 1 H), 4.42 (d, J = 10.0 Hz, 1 H), 4.25-4.16 (m, 1 H, C-5"), 4.03 (m, 1 H, C-4"), 3.80-3.78 (m, 1 H), 3.78 (s, 3 H), 3.74-3.71 (m, 1 H), 3.40 (dd, *J* = 10.0, 4.0 Hz, 1 H, C-5" 0.87, 0.85, 0.84 (s, total 18 H), 0.06, 0.05, 0.03, -0.02, -0.03, -0.06 (s, total 12 H); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 159.4, 130.0, 129.9, 129.5, 128.7, 126.3, 113.9, 85.4, 80.1, 72.3, 71.2, 67.3, 55.3, 26.0, -4.4, -4.7, -4.8.

Synthesis of Bis-TBS ether Acetal 15. To a solution of **14** (1.66 g, 2.81mmol) in wet acetone (93% acetone, 7% water) (40mL) at 0 °C was added *N*-bromosuccinimide (3.3 equiv, 1.65 g, 9.27 mmol) followed by pyridine (11 equiv, 30.9 mmol, 2.5 mL). The resulting solution was stirred for 4 h at 0 °C and quenched by addition of saturated Na_2SO_3 solution. The reaction mixture was extracted with ether (3 x 5 mL), and the organic extracts were washed with brine and dried over Na_2SO_4 before concentrating. The crude residue was purified by flash chromotography (silica gel, 10% EtOAC in hexanes) to afford **15** (1.12 g, 80% as a *ca.* 2:1 mixture of the two anomers). R_f = 0.37, 0.46 (silica gel, Et_2O-hexane,1:1); FT-IR (neat) 3456, 2930, 2857, 1513, 1469, 1253, 1096, 1034, 836 cm^{-1}; ^1H NMR (250 MHz, $CDCl_3$) δ 7.24 (d, J = 8.0 Hz, 1 H), 7.23 (d, J = 8.0 Hz, 1 H), 6.87 (d, J = 8.0 Hz, 2 H), 5.23 (d, J = 11.0 Hz, 0.33 x 1 H), 4.96-4.88 (m, 1 H), 4.63 (d, J = 11.0 Hz, 0.67 x 1 H), 4.52 (d, J = 12.0 Hz, 0.67 x 1 H), 4.40 (d, J = 12.0 Hz, 0.33 x 1 H), 4.08-3.35 (m, 5 H), 3.78 (s, 3 H), 0.87, 0.85, 0.84 (s, total 18 H), 0.06, 0.05, 0.03, -0.02, -0.03, -0.06 (s, total 12 H); ^{13}C NMR (62.5 MHz, $CDCl_3$) 129.9, 129.7, 129.6, 114.1, 114.0, 92.7, 91.4, 78.7, 76.1, 73.5, 72.3, 72.2, 70.3, 66.9, 65.6, 63.6, 46.2, 26.0, 25.9, 25.7, 25.6, 18.2, 18.1, -4.4, -4.5, -4.8, -5.0; HRMS (FAB) calcd for $C_{25}H_{45}O_6Si_2$ ($M+Cs^+$): 631.1887, found 631.1865.

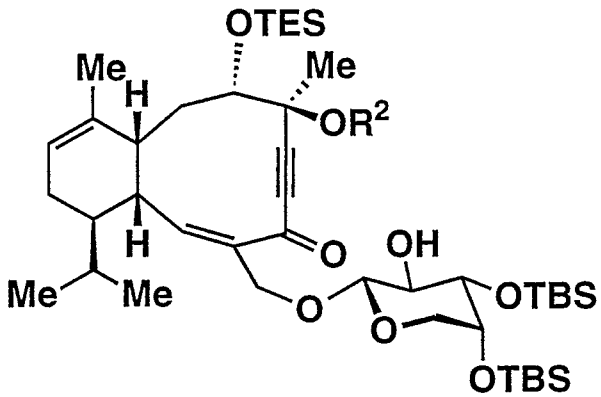
Synthesis of Trichloroacetimidate 9. To a solution of the anomeric mixture **15** (0.218 g, 437 μmol) and CCl_3CN (0.220 mL, 2.20 mmol, 5.0 equiv) in CH_2Cl_2 (5.0 mL) at 0 °C was added NaH (0.002 g, 41.7 μmol, 0.1 equiv) and the reaction mixture was stirred at room temperature for 3.5 h (TLC analysis), after which it was concentrated and the residue was purified by flash chromatography (silica gel, 33% EtOAc in hexanes with 2% Et_3N) to produce **9** (0.261 g, 93%). R_f = 0.76 (silica gel, Et_2O-hexane,1:3); $[\alpha]_D^{25}$ -69.7 (c 1.0, $CHCl_3$); FT-IR (neat) ν_{max} 3348, 2930, 2857, 1670, 1514, 1252, 1113, 1006, 837 cm^{-1}; ^1H NMR (250 MHz, $CDCl_3$) δ 8.48 (s, 1 H), 7.21 (d, J = 8.5 Hz, 2 H), 6.81 (d, J = 11.5 Hz, 1 H), 6.26 (d, J = 2.5 Hz, 1 H, C-1"), 4.61 (d, J = 11.5 Hz, 1 H), 4.57 (d, J = 11.5 Hz, 1 H), 4.04-3.94 (m, 2 H), 3.89-3.82 (m, 2 H), 3.77 (s, 3 H), 3.64 (dd, J = 11.5, 4.0 Hz, 1 H, C-5"), 0.88 (s, 9 H), 0.86 (s, 9 H), 0.08 (s, 3 H), 0.04 (s, 3H), 0.02 (s, 3 H), -0.02 (s, 3 H); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 161.3, 129.3, 113.6, 96.0, 75.1, 72.7, 70.6, 66.4, 55.2, 46.2, 26.1, 26.0, 26.0, 25.9, 25.8, 18.2, 18.1, -4.5, -4.5, -4.7.



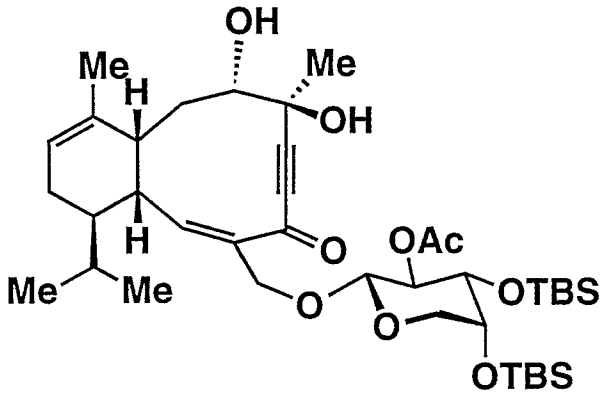
Data for α-Anomer of **16**; $[\alpha]_D^{25}$ +38.0 (c 0.40, $CHCl_3$); FT-IR (neat) ν_{max} 2955, 2879, 2205, 1736, 1653, 1613, 1513, 1461, 1366, 1250, 1094, 1037, 1004, 835, 777, 740 cm^{-1}; ^1H NMR (500 MHz, $CDCl_3$) δ 7.25 (d, J = 8.5 Hz, 2 H, Ar), 6.85 (d, J = 8.5 Hz, 2 H, Ar), 6.24 (d, J = 12.0 Hz, 1 H, C-2), 5.41 (bs, 1 H, C-12), 4.67 (d, J = 11.3 Hz, 1 H), 4.46 (d, J = 3.6 Hz, 1 H), C-1"), 4.39 (d, J = 11.3 Hz, 1 H), 3.38 (d, J = 11.7 Hz, 1 H, C-15), 4.09 (d, J = 11.7 Hz, 1 H, C-15), 3.87-3.80 (m, 2 H, C-4", C-5"), 3.80 (s, 3 H, Me), 3.70 (t, J = 2.6 Hz, 1 H, C-1), 3.60 (dd, J = 5.8, 2.5 Hz, C-3"), 3.51 (dt, J = 11.8, 2.8 Hz, 1 H, C-8), 3.40 (dd, J = 5.8, 3.6 Hz, 1 H, C-2"), 3.26 (dd, J = 10.5, 2.4 Hz, 1 H, C-5''), 2.36 (bs, 1 H, C-10), 2.17 (bd, J = 16.7 Hz, 1 H, C-13), 1.98 (bd, J = 16.7 Hz, 1 H, C-13), 1.84-1.80 (m, 2 H, C-9), 1.68 (s, 3 H, C-17), 1.55-1.48 (m, 1 H, C-18), 1.34 (s, 3 H, C-16), 1.11-1.05 (m, 1 H, C-14), 0.98-0.91 (m, 24 H, C-19, C-20), 0.88 (s, 9 H), 0.83 (s, 9 H), 0.78-0.58 (m, 12 H), 0.06 (s, 6 H), -0.06 (s, 3 H), -0.11 (s, 3 H); ^{13}C NMR (125.7 MHz, $CDCl_3$) δ 180.4, 158.5, 143.4, 140.2, 133.9, 130.5, 129.7, 121.6, 113.6, 103.0, 87.9, 83.3, 78.0, 73.0, 72.5, 71.1, 55.2, 53.4, 44.9, 39.0, 38.6, 36.1, 30.3, 30.0, 26.0, 25.9, 25.8, 21.9, 21.4, 21.2, 20.2, 18.2, 18.1, -4.6, -4.8.



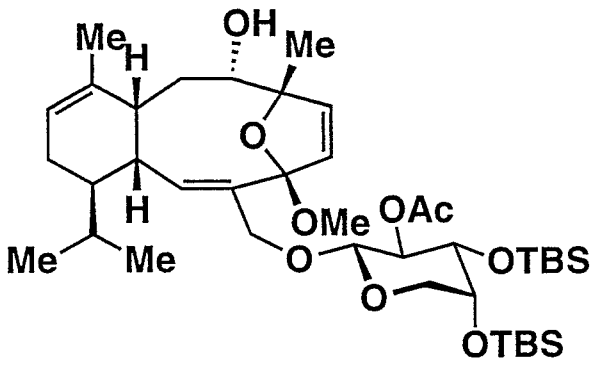
Data for α -Anomer of **17**; $[\alpha]_D^{25}$ +36.6 (c 0.80, $CHCl_3$); FT-IR (neat) ν_{max} 3471, 2955, 2879, 2206, 1653, 1600, 1461, 1255, 1159, 1114, 1091, 1027, 1004, 834, 777, 740 cm^{-1}; ^1H NMR (500 MHz, $CDCl_3$) δ 6.27 (d, *J* = 11.8 Hz, 1 H, C-2), 5.44 (bs, 1 H, C-12), 4.40 (d, *J* = 12.1 Hz, 1 H, C-15), 4.25 (d, *J* = 12.1 Hz, 1 H, C-15), 4.15 (d, *J* = 6.7 Hz, 1 H, C-1"), 3.80-3.75 (m, 2 H, C-4", C-5"), 3.70 (t, *J* = 2.9 Hz, 1 H, C-1), 3.67 (dd, *J* = 8.6, 6.7 Hz, C-2"), 3.53 (dd, *J* = 8.6, 2.7 Hz, 1 H, C-3", C-8), 3.37 (dd, *J* = 12.9, 2.3 Hz, 1 H, C-5"), 2.37 (bd, *J* = 8.7 Hz, 1 H, C-10), 2.21-2.13 (m, 2 H, C-13, OH), 1.99 (bd, *J* = 18.4 Hz, 1 H, C-13), 1.88-1.75 (m, 2 H, C-9), 1.70 (s, 3 H, C-17), 1.55-1.48 (m, 1 H, C-18), 1.40 (s, 3 H, C-16),. 1.10-1.04 (m, 1 H, C-14), 0.98-0.91 (m, 24 H, C-19, C-20), 0.90 (s, 9 H), 0.89 (s, 9 H), 0.82-0.57 (m, 12 H), 0.10 (s, 6 H), 0.08 (s, 3 H), 0.07 (s, 3 H), 0.06 (s, 3 H); ^{13}C NMR (125.7 MHz, $CDCl_3$) δ 180.5, 144.6, 139.5, 134.0, 121.6, 103.9, 87.8, 83.3, 72.5, 71.6, 71.2, 70.3, 66.6, 44.9, 39.0, 38.7, 36.1, 30.0, 26.0, 25.9, 21.9, 21.4, 21.3, 20.2, 18.4, 18.1, 7.0, 6.9, 5.8, 5.2, -4.3, -4.4, -4.5, -4.6.



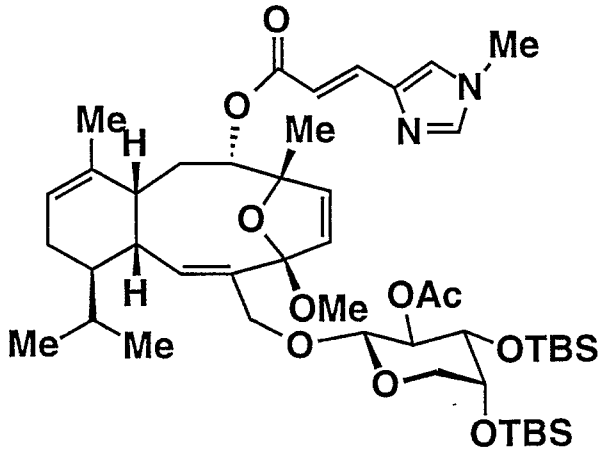
Data for α -Anomer of **18**; $[\alpha]_D^{25}$ +56.7 (c 0.76, $CHCl_3$); FT-IR (neat) ν_{max} 2956, 2878, 2206, 1757, 1659, 1465, 1368, 1231, 1116, 1004, 836, 778, 740 cm^{-1}; ^1H NMR (500 MHz, $CDCl_3$) δ 6.21 (d, *J* = 11.5 Hz, 1 H, C-2), 5.41 (bs, 1 H, C-12), 4.93 (dd, *J* = 6.5, 5.0 Hz, 1 H, C-2'''), 4.34 (d, *J* = 11.8 Hz, 1 H, C-15), 4.33 (d, *J* = 5.0 Hz, 1 H, C-1''), 4.09 (d, *J* = 11.8 Hz, 1 H, C-15), 3.87 (dd, *J* = 11.3, 6.0 Hz, 1 H, C-5''), 3.80-3.75 (m, 1 H, C-4''), 3.71-3.60 (m, 1 H, C-3''), 3.50 (dt, *J* = 11.8, 2.7 Hz, C-8), 3.33 (dd, *J* = 11.3, 2.2 Hz, 1 H, C-5''), 2.38-2.33 (m, 1 H, C-10), 2.15 (bd, *J* = 16.2 Hz, 1 H), 2.07 (s, 3 H, C-2'''), 1.98 (bd, *J* = 16.2 Hz, 1 H, C-13), 1.87-1.80 (m, 2 H, C-9), 1.70 (s, 3 H, C-17), 1.56-1.40 (m, 1 H, C-18), 1.41 (s, 3 H, C-16), 1.08-1.03 (m, 1 H, C-14), 0.98-0.89 (m, 24 H, C-19, C-20), 0.90 (s, 9 H), 0.88 (s, 9 H), 0.82-0.56 (m, 12 H), 0.08 (s, 6 H), 0.06 (s, 3 H), 0.05 (s, 3 H); ^{13}C NMR (125.7 MHz, $CDCl_3$) δ 180.3, 169.4, 144.0, 139.8, 133.9, 121.6, 103.5, 101.2, 87.8, 83.3, 72.6, 72.0, 71.6, 71.2, 69.0, 44.9, 39.0, 38.6, 36.1, 30.0, 25.9, 25.6, 21.8, 21.4, 21.2, 21.1, 20.2, 18.2, 18.0, 6.9, 6.8, 5.8, 5.2, -4.5, -4.6, -4.9.



Data for α -Anomer of **19**; $[\alpha]_D^{25}$ +42.8 (c 0.46, $CHCl_3$); FT-IR (neat) ν_{max} 3440, 2957, 2930, 2856, 2205, 1739, 1652, 1468, 1368, 1254, 1230, 1168, 1091, 1057, 1037, 836, 778 cm^{-1}; ^1H NMR (500 MHz, $CDCl_3$) δ 6.22 (d, *J* = 11.5 Hz, 1 H, C-2), 5.41 (bs, 1 H, C-12), 4.93 (dd, *J* = 7.0, 5.0 Hz, 1 H, C-2'''), 4.32 (d, *J* = 11.7 Hz, 1 H, C-15), 4.32 (d, *J* = 11.7 Hz, 1 H, C-15), 4.31 (d, *J* = 5.0 Hz, 1 H, C-1''), 4.11 (d, *J* = 11.7 Hz, 1 H, C-15), 3.85 (dd, *J* = 11.3, 5.7 Hz, 1 H, C-5''), 3.82-3.80 (m, 1 H, C-4''), 3.74 (bd, *J* = 2.9 Hz, 1 H, C-1), 3.68 (dd, *J* = 7.0, 2.7 Hz, 1 H, C-3''), 3.43 (dt, *J* = 11.8, 2.8 Hz, C-8), 3.33 (dd, *J* = 11.3, 1.9 Hz, 1 H, C-5''), 3.18 (s, 3 H, C-21), 2.72 (bs, 1 H, OH), 2.62 (bs, 1 H, OH), 2.42 (bd, *J* = 11.7 Hz, 1 H, C-10), 2.15 (bd, *J* = 16.2 Hz, 1 H), 2.07 (s, 3 H, C-2'''), 1.98 (bd, *J* = 16.2 Hz, 1 H, C-13), 1.91 (dd, *J* = 14.8 Hz, 1 H, C-9), 1.74 (s, 3 H, C-17), 1.55-1.50 (m, 1 H, C-18), 1.49 (s, 3 H, C-16), 1.08-1.05 (m, 1 H, C-14), 0.98-0.87 (m, 6 H, C-19, C-20), 0.88 (s, 9 H), 0.87 (s. 9 H), 0.07 (s, 3 H), 0.06 (s, 3 H), 0.05 (s, 3 H), 0.04 (s, 3 H); ^{13}C NMR (125.7 MHz, $CDCl_3$) δ 180.8, 169.6, 143.7, 140.4, 133.5, 121.6, 102.8, 101.3, 87.8, 80.7, 71.9, 71.7, 71.4, 71.2, 69.1, 45.0, 38.8, 38.7, 33.1, 31.6, 30.3, 29.7, 25.9, 25.7, 25.6, 22.6, 21.8, 21.5, 21.2, 20.4, 20.3, 19.9, 18.1, 18.0, 14.1, -4.4, -4.6, -4.7.



Data for α -Anomer of **22**; $[\alpha]_D^{25}$ +47.1 (c 0.95, $CHCl_3$); FT-IR (neat) ν_{max} 3472, 2957, 2930, 2856, 1747, 1469, 1366, 1254, 1233, 1096, 1056, 1038, 837, 777 cm^{-1}; ^1H NMR (500 MHz, $CDCl_3$) δ 6.13 (d, *J* = 5.9 Hz, 1 H, C-5), 6.04 (d, *J* = 5.9 Hz, C-6), 5.54 (d, *J* = 9.5 Hz, 1 H, C-2), 5.27 (bs, 1 H, C-12), 4.91 (t, *J* = 4.0 Hz, 1 H, C-2''), 4.38 (d, *J* = 4.0 Hz, 1 H, C-1''), 4.08 (d, *J* = 12.8 Hz, 1 H, C-15), 4.04 (d, *J* = 12.8 Hz, 1 H, C-15), 3.94-3.89 (m, 2 H), 3.85-3.81 (m, 1 H, C-1), 3.87 (dd, *J* = 7.0 Hz, 1 H, C-8), 3.29 (dd, *J* = 10.9, 3.0 Hz, 1 H, C-5''), 2.37-2.27 (m, 2 H, C-10, C-13), 2.05 (s, 3 H, C-2'''), 1.97 (bd, *J* = 119.8 Hz, 1 H, C-13), 1.60-1.46 (m, 3 H, C-9, C-18), 1.57 (s, 3 H, C-17), 1.45 (s, 3 H, C-16), 1.25-1.18 (m, 1 H, C-14), 0.91 (d, *J* = 6.4 Hz, 3 H, C-19 or C-20), 0.90 (d, *J* = 6.7 Hz, 3 H, C-19 or C-20), 0.88 (s, 9 H), 0.87 (s, 9 H), 0.06 (s, 6 H), 0.05 (s, 6 H); ^{13}C NMR (125.7 MHz, $CDCl_3$) δ 169.4, 134.2, 133.7, 133.3, 130.2, 121.7, 115.9, 91.8, 91.3, 80.7, 72.4, 70.8, 69.8, 68.2, 66.0, 49.6, 46.0, 42.2, 39.2, 34.4, 33.6, 30.3, 29.7, 29.1, 25.9, 25.7, 24.5, 22.3, 22.1, 20.4, 18.2, 18.1, -4.6, -4.8.



Data for α -Anomer of **23**; $[\alpha]_D^{25}$ +23.1 (c 1.1, $CHCl_3$); FT-IR (neat) ν_{max} 2956, 2929, 2856, 1748, 1705, 1639, 1439, 1468, 1367, 1253, 1154, 1095, 1037, 836, 776 cm^{-1}; ^1H NMR (500 MHz, $CDCl_3$) δ 7.53 (d, *J* = 15.6 Hz, 1 H, C-3'), 7.46 (s, 1 H, C-7'), 7.09 (s, 1 H, C-5'), 6.57 (d, *J* = 15.6 Hz, 1 H, C-2'), 6.12 (d, *J* = 5.9 Hz, 1 H, C-5), 6.08 (d, *J* = 5.9 Hz, 1 H, C-6), 5.57 (d, *J* = 9.5 Hz, 1 H, C-2), 5.25 (bs, 1 H, C-12), 4.92 (bt, *J* = 3.4 Hz, 1 H, C-2''), 4.80 (d, *J* = 7.3 Hz, 1 H, C-8), 4.39 (d, *J* = 3.4 Hz, 1 H, C-1''), 4.09 (d, *J* = 13.2 Hz, 1 H, C-15), 4.04 (d, *J* = 13.2 Hz, 1 H, C-15), 3.97-3.89 (m, 2 H), 3.84-3.82 (m, 1 H, C-1), 3.75-3.73 (m, 1 H), 3.71 (s, 3 H, C-9'), 3.29 (dd, *J* = 11.0, 2.9 Hz, 1 H, C-5''), 3.20 (s, 3 H, C-21), 2.59 (bd, *J* = 10.7 Hz, 1 H, C-10), 2.31 (bd, *J* = 17.2 Hz, 1 H, C-13), 2.05 (s, 3 H, C-2'''), 1.98 (bd, *J* = 17.2 Hz, 1 H, C-13), 1.70-1.52 (m, 3 H, C-9, C-18), 1.50 (s, 3 H, C-17), 1.43 (s, 3 H, C-16), 1.28-1.21 (m, 1 H, C-14), 0.97 (d, *J* = 6.6 Hz, 3 H, C-19 or C-20), 0.92 (d, *J* = 6.4 Hz, 3 H, C-19 or C-20), 0.89 (s, 9 H), 0.88 (s, 9 H), 0.06 (s, 6 H), 0.05 (s, 6 H); ^{13}C NMR (125.7 MHz, $CDCl_3$) δ 169.4, 166.7, 139.2, 138.4, 136.2, 134.4, 134.0, 133.9, 133.5, 130.5, 122.6, 121.3, 116.2, 116.1, 89.8, 81.5, 72.4, 70.9, 69.9, 68.3, 65.8, 33.9, 33.6, 31.6, 30-.3, 29.7, 29.0, 25.9, 25.7, 24.5, 24.5, 22.2, 22.0, 21.1, 20.6, 18.2, 18.1. -4.6, -4.6, -4.8.