Task: reassign convert

Input format: %n NMR (%f MHz, %s) δ /%c (%m\*, %a\*)/, /.

Output format: %n NMR (%f MHz, %s) δ /%c\* (%a)\*/, /.

1H NMR (300 MHz, DMSO-*d*6) δ 0.86 (t, *J* = 6.7 Hz, 3H, 88), 1.21 – 1.34 (m, 10H, 83, 84, 85, 86, 87), 1.42 – 1.53 (m, 2H, 82), 1.93 (ddd, *J* = 13.2, 7.5, 6.0 Hz, 1H, 52’), 2.10 (ddd, *J* = 13.2, 6.0, 3.2 Hz, 1H, 52’’), 3.17 – 3.27 (m, 2H, 81), 3.52 (ddd, *J* = 11.8, 5.3, 4.1 Hz, 1H, 55’’), 3.57 (ddd, *J* = 11.8, 5.3, 3.8 Hz, 1H, 55’), 3.76 (ddd, *J* = 4.2, 3.7, 3.3 Hz, 1H, 54), 4.20 (ddt, *J* = 6.0, 4.2, 3.4 Hz, 1H, 53), 4.93 (t, *J* = 5.3 Hz, 1H, 5516), 5.16 (d, *J* = 4.2 Hz, 1H, 5316), 5.73 (d, *J* = 7.5 Hz, 1H, 5), 6.16 (dd, *J* = 7.5, 6.0 Hz, 1H, 51), 7.63 (t, *J* = 5.5 Hz, 1H, 414), 7.71 (d, *J* = 7.5 Hz, 1H, 6).

Spectrum: a

13C NMR (101 MHz, DMSO-*d*6) δ 13.89 (m, 88), 22.05 (m), 26.48 (m), 28.55 (m), 28.64 (m), 28.73 (m), 31.22 (m, 82, 83, 84, 85, 86, 87), 39.73 (m, 52), 40.28 (m, 81), 61.42 (m, 55), 70.46 (m, 53), 84.83 (m, 51), 87.15 (m, 54), 94.70 (m, 5), 139.60 (m, 6), 155.18 (m, 2), 163.29 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 0.85 (t, *J* = 6.7 Hz, 3H, 1010), 1.20 – 1.31 (m, 14H, 103, 104, 105, 106, 107, 108, 109), 1.41 – 1.53 (m, 2H, 102), 1.93 (ddd, *J* = 13.2, 7.5, 6.0 Hz, 1H, 52’), 2.10 (ddd, *J* = 13.2, 6.0, 3.1 Hz, 1H, 52’’), 3.17 – 3.28 (m, 2H, 101), 3.53 (ddd, *J* = 11.9, 5.3, 4.1 Hz, 1H, 55’’), 3.57 (ddd, *J* = 11.9, 5.3, 3.8 Hz, 1H, 55’), 3.77 (ddd, *J* = 4.2, 3.8, 3.0 Hz, 1H, 54), 4.20 (ddt, *J* = 6.0, 4.2, 3.1 Hz, 1H, 53), 4.94 (t, *J* = 5.3 Hz, 1H, 5516), 5.17 (d, *J* = 4.2 Hz, 1H, 5316), 5.74 (d, *J* = 7.5 Hz, 1H, 5), 6.16 (dd, *J* = 7.5, 5.9 Hz, 1H, 51), 7.64 (t, *J* = 5.5 Hz, 1H, 414), 7.72 (d, *J* = 7.5 Hz, 1H, 6).

Spectrum: b

13C NMR (101 MHz, DMSO-*d*6) δ 13.87 (m, 1010), 22.03 (m), 26.44 (m), 28.52 (m), 28.64 (m), 28.74 (m), 28.91 (m), 28.97 (m), 31.23 (m, 102, 103, 104, 105, 106, 107, 108, 109), 39.71 (m, 52), 40.25 (m, 101), 61.39 (m, 55), 70.43 (m, 53), 84.79 (m, 51), 87.11 (m, 54), 94.63 (m, 5), 139.56 (m, 6), 155.11 (m, 2), 163.24 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 0.86 (t, *J* = 6.7 Hz, 3H, 1212), 1.21 – 1.31 (m, 18H, 123, 124, 125, 126, 127, 128, 129, 1210, 1211), 1.42 – 1.52 (m, 2H, 122), 1.93 (ddd, *J* = 13.2, 7.5, 6.1 Hz, 1H, 52’), 2.10 (ddd, *J* = 13.2, 6.0, 3.1 Hz, 1H, 52’’), 3.17 – 3.27 (m, 2H, 121), 3.52 (ddd, *J* = 11.7, 5.3, 4.1 Hz, 1H, 55’’), 3.57 (ddd, *J* = 11.7, 5.3, 3.8 Hz, 1H, 55’), 3.76 (ddd, *J* = 4.2, 3.8, 3.0 Hz, 1H, 54), 4.20 (ddt, *J* = 6.1, 4.2, 3.1 Hz, 1H, 53), 4.93 (t, *J* = 5.3 Hz, 1H, 5516), 5.16 (d, *J* = 4.2 Hz, 1H, 5316), 5.73 (d, *J* = 7.5 Hz, 1H, 5), 6.16 (dd, *J* = 7.5, 5.9 Hz, 1H, 51), 7.63 (t, *J* = 5.4 Hz, 1H, 414), 7.71 (d, *J* = 7.5 Hz, 1H, 6).

Spectrum: c

13C NMR (75 MHz, DMSO-*d*6) δ 13.90 (m, 1212), 22.05 (m), 26.46 (m), 28.54 (m), 28.67 (m), 28.76 (m), 28.97 (m), 29.01 (m), 31.26 (m, 122, 123, 124, 125, 126, 127, 128, 129, 1210, 1211), 39.71 (m, 52), 40.24 (m, 121), 61.40 (m, 55), 70.44 (m, 53), 84.78 (m, 51), 87.11 (m, 54), 94.61 (m, 5), 139.60 (m, 6), 155.07 (m, 2), 163.23 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 0.85 (t, *J* = 6.6 Hz, 3H, 1414), 1.20 – 1.30 (m, 22H, 143, 144, 145, 146, 147, 148, 149, 1410, 1411, 1412, 1413), 1.41 – 1.50 (m, 2H, 142), 1.92 (ddd, *J* = 13.3, 7.2, 6.0 Hz, 1H, 52’), 2.08 (ddd, *J* = 13.2, 6.0, 3.2 Hz, 1H, 52’’), 3.16 – 3.24 (m, 2H, 141), 3.51 (ddd, *J* = 11.7, 5.3, 4.1 Hz, 1H, 55’’), 3.56 (ddd, *J* = 11.7, 5.3, 3.8 Hz, 1H, 55’), 3.75 (ddd, *J* = 4.1, 3.6, 3.0 Hz, 1H, 54), 4.19 (ddt, *J* = 6.0, 4.2, 3.2 Hz, 1H, 53), 4.94 (t, *J* = 5.3 Hz, 1H, 5516), 5.17 (d, *J* = 4.2 Hz, 1H, 5316), 5.73 (d, *J* = 7.5 Hz, 1H, 5), 6.15 (dd, *J* = 7.2, 6.2 Hz, 1H, 51), 7.67 (t, *J* = 5.8 Hz, 1H, 414), 7.71 (d, *J* = 7.4 Hz, 1H, 6).

Spectrum: d

13C NMR (101 MHz, DMSO-*d*6) δ 13.94 (m, 1414), 22.09 (m), 26.50 (m), 28.56 (m), 28.71 (m), 28.80 (m), 29.02 (m), 29.05 (m), 31.30 (m, 142, 143, 144, 145, 146, 147, 148, 149, 1410, 1411, 1412, 1413), 39.74 (m, 52), 40.27 (m, 141), 61.41 (m, 55), 70.46 (m, 53), 84.81 (m, 51), 87.15 (m, 54), 94.66 (m, 5), 139.64 (m, 6), 155.03 (m, 2), 163.17 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 0.81 (t, *J* = 6.6 Hz, 3H, 66), 1.18 – 1.26 (m, 6H, 63, 64, 65), 1.40 – 1.52 (m, 2H, 62), 1.80 (d, *J* = 1.0 Hz, 3H, 512), 1.91 (ddd, *J* = 13.3, 7.7, 6.0 Hz, 1H, 52’), 2.02 (ddd, *J* = 13.2, 6.0, 3.2 Hz, 1H, 52’’), 3.19 – 3.28 (m, 2H, 61), 3.49 (ddd, *J* = 11.8, 5.3, 3.9 Hz, 1H, 55’’), 3.55 (ddd, *J* = 11.8, 5.3, 3.9 Hz, 1H, 55’), 3.71 (td, *J* = 3.9, 3.1 Hz, 1H, 54), 4.17 (ddt, *J* = 6.0, 4.2, 3.2 Hz, 1H, 53), 4.93 (t, *J* = 5.3 Hz, 1H, 5516), 5.12 (d, *J* = 4.2 Hz, 1H, 5316), 6.14 (dd, *J* = 7.6, 5.9 Hz, 1H, 51), 7.06 (t, *J* = 5.7 Hz, 1H, 414), 7.52 (d, *J* = 1.2 Hz, 1H, 6).

Spectrum: e

13C NMR (75 MHz, DMSO-*d*6) δ 13.11 (m, 66), 13.87 (m, 512), 22.04 (m), 26.13 (m), 28.56 (m), 31.06 (m, 62, 63, 64, 65), 40.12 (m, 52), 40.21 (m, 61), 61.42 (m, 55), 70.46 (m, 53), 84.58 (m, 51), 87.06 (m, 54), 101.68 (m, 5), 137.15 (m, 6), 155.13 (m, 2), 162.65 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 0.84 (t, *J* = 6.8 Hz, 3H, 88), 1.21 – 1.30 (m, 10H, 83, 84, 85, 86, 87), 1.46 – 1.55 (m, 2H, 82), 1.84 (s, 3H, 512), 1.95 (ddd, *J* = 13.3, 7.7, 6.0 Hz, 1H, 52’), 2.06 (ddd, *J* = 13.1, 6.0, 3.2 Hz, 1H, 52’’), 3.25 – 3.31 (m, 2H, 81), 3.54 (ddd, *J* = 12.0, 5.3, 3.9 Hz, 1H, 55’), 3.59 (ddd, *J* = 11.8, 5.5, 3.8 Hz, 1H, 55’’), 3.75 (td, *J* = 3.9, 3.3 Hz, 1H, 54), 4.21 (ddt, *J* = 6.0, 4.3, 3.3 Hz, 1H, 53), 4.96 (t, *J* = 5.3 Hz, 1H, 5516), 5.15 (d, *J* = 4.3 Hz, 1H, 5316), 6.17 (dd, *J* = 7.6, 6.0 Hz, 1H, 51), 7.10 (t, *J* = 5.7 Hz, 1H, 414), 7.56 (s, 1H, 6).

Spectrum: f

13C NMR (101 MHz, DMSO-*d*6) δ 13.05 (m, 88), 13.84 (m, 512), 22.01 (m), 26.43 (m), 28.54 (m), 28.61 (m), 28.76 (m), 31.19 (m, 82, 83, 84, 85, 86, 87), 40.05 (m, 52), 40.17 (m, 81), 61.39 (m, 55), 70.42 (m, 53), 84.56 (m, 51), 87.03 (m, 54), 101.63 (m, 5), 137.09 (m, 6), 155.09 (m, 2), 162.61 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 0.84 (t, *J* = 6.8 Hz, 3H, 1010), 1.21 – 1.28 (m, 14H, 103, 104, 105, 106, 107, 108, 109), 1.45 – 1.55 (m, 2H, 102), 1.84 (d, *J* = 1.0 Hz, 3H, 512), 1.95 (ddd, *J* = 13.3, 7.8, 6.1 Hz, 1H, 52’), 2.06 (ddd, *J* = 13.1, 6.0, 3.2 Hz, 1H, 52’’), 3.25 – 3.31 (m, 2H, 101), 3.54 (ddd, *J* = 11.7, 5.3, 4.0 Hz, 1H, 55’), 3.59 (ddd, *J* = 11.7, 5.3, 3.8 Hz, 1H, 55’’), 3.75 (ddd, *J* = 4.2, 3.7, 3.1 Hz, 1H, 54), 4.21 (ddt, *J* = 6.0, 4.2, 3.2 Hz, 1H, 53), 4.96 (t, *J* = 5.3 Hz, 1H, 5516), 5.16 (d, *J* = 4.2 Hz, 1H, 5316), 6.17 (dd, *J* = 7.6, 5.9 Hz, 1H, 51), 7.09 (t, *J* = 5.7 Hz, 1H, 414), 7.56 (d, *J* = 1.2 Hz, 1H, 6).

Spectrum: g

13C NMR (101 MHz, DMSO-*d*6) δ 13.08 (m, 1010), 13.87 (m, 512), 22.05 (m), 26.45 (m), 28.57 (m), 28.67 (m), 28.83 (m), 28.94 (m), 28.99 (m), 31.26 (m, 102, 103, 104, 105, 106, 107, 108, 109), 40.14 (m, 52), 40.20 (m, 101), 61.42 (m, 55), 70.45 (m, 53), 84.59 (m, 51), 87.05 (m, 54), 101.66 (m, 5), 137.11 (m, 6), 155.12 (m, 2), 162.64 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 0.86 (t, *J* = 6.8 Hz, 3H, 1212), 1.23 – 1.28 (m, 18H, 123, 124, 125, 126, 127, 128, 129, 1210, 1211), 1.47 – 1.56 (m, 2H, 122), 1.84 (d, *J* = 1.0 Hz, 3H, 512), 1.95 (ddd, *J* = 13.2, 7.8, 6.0 Hz, 1H, 52’), 2.06 (ddd, *J* = 13.1, 6.0, 3.2 Hz, 1H, 52’’), 3.19 – 3.32 (m, 2H, 121), 3.53 (ddd, *J* = 11.8, 5.3, 4.2 Hz, 1H, 55’’), 3.59 (ddd, *J* = 11.7, 5.3, 3.9 Hz, 1H, 55’), 3.75 (ddd, *J* = 4.1, 3.6, 3.0 Hz, 1H, 54), 4.21 (dddd, *J* = 6.0, 4.2, 3.2, 2.8 Hz, 1H, 53), 4.97 (t, *J* = 5.3 Hz, 1H, 5516), 5.16 (d, *J* = 4.2 Hz, 1H, 5316), 6.18 (dd, *J* = 7.6, 6.0 Hz, 1H, 51), 7.10 (t, *J* = 5.7 Hz, 1H, 414), 7.56 (d, *J* = 1.2 Hz, 1H, 6).

Spectrum: h

13C NMR (75 MHz, DMSO-*d*6) δ 13.11 (m, 1212), 13.90 (m, 512), 22.06 (m), 26.45 (m), 28.57 (m), 28.68 (m), 28.84 (m), 29.00 (m), 29.03 (m), 31.27 (m, 122, 123, 124, 125, 126, 127, 128, 129, 1210, 1211), 40.11 (m, 52), 40.24 (m, 121), 61.40 (m, 55), 70.43 (m, 53), 84.58 (m, 51), 87.07 (m, 54), 101.65 (m, 5), 137.18 (m, 6), 154.93 (m, 2), 162.50 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 1.84 (d, *J* = 1.1 Hz, 3H, 512), 1.97 (ddd, *J* = 13.2, 7.6, 6.1 Hz, 1H, 52’), 2.08 (ddd, *J* = 13.2, 5.9, 3.3 Hz, 1H, 52’’), 2.84 (dd, *J* = 8.6, 6.5 Hz, 2H, 22), 3.51 – 3.56 (m, 2H, 21), 3.56 – 3.57 (m, 1H, 55’), 3.60 (ddd, *J* = 11.8, 5.3, 4.0 Hz, 1H, 55’’), 3.76 (td, *J* = 3.9, 3.0 Hz, 1H, 54), 4.22 (dddd, *J* = 6.1, 4.3, 3.4, 3.0 Hz, 1H, 53), 4.97 (t, *J* = 5.3 Hz, 1H, 5516), 5.17 (d, *J* = 4.2 Hz, 1H, 5316), 6.20 (dd, *J* = 7.6, 5.9 Hz, 1H, 51), 7.16 – 7.20 (m, 1H, 64), 7.20 – 7.22 (m, 2H, 62, 66), 7.22 – 7.26 (m, 1H, 414), 7.26 – 7.32 (m, 2H, 63, 65), 7.60 (d, *J* = 1.2 Hz, 1H, 6).

Spectrum: i

13C NMR (101 MHz, DMSO-*d*6) δ 13.04 (m, 512), 34.53 (m, 22), 40.15 (m, 52), 41.73 (m, 21), 61.42 (m, 55), 70.45 (m, 53), 84.64 (m, 51), 87.10 (m, 54), 101.65 (m, 5), 126.04 (m, 64), 128.30 (m, 62, 66), 128.58 (m, 63, 65), 137.37 (m, 6), 139.53 (m, 61), 155.07 (m, 2), 162.66 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 1.45 – 1.54 (m, 2H, 43), 1.54 – 1.64 (m, 2H, 42), 1.93 (ddd, *J* = 13.3, 7.6, 6.0 Hz, 1H, 52’), 2.10 (ddd, *J* = 13.2, 6.0, 3.2 Hz, 1H, 52’’), 2.59 (t, *J* = 7.5 Hz, 2H, 44), 3.20 – 3.30 (m, 2H, 41), 3.53 (ddd, *J* = 11.8, 5.2, 4.0 Hz, 1H, 55’’), 3.57 (ddd, *J* = 12.0, 5.2, 4.0 Hz, 1H, 55’), 3.77 (td, *J* = 4.0, 3.0 Hz, 1H, 54), 4.20 (ddt, *J* = 6.0, 4.3, 3.2 Hz, 1H, 53), 4.93 (t, *J* = 5.2 Hz, 1H, 5516), 5.17 (d, *J* = 4.3 Hz, 1H, 5316), 5.73 (d, *J* = 7.5 Hz, 1H, 5), 6.17 (t, *J* = 7.3, 6.2 Hz, 1H, 51), 7.10 – 7.18 (m, 1H, 64), 7.18 – 7.22 (m, 2H, 62, 66), 7.22 – 7.34 (m, 2H, 63, 65), 7.66 (t, *J* = 5.6 Hz, 1H, 414), 7.72 (d, *J* = 7.5 Hz, 1H, 6).

Spectrum: j

13C NMR (101 MHz, Methanol-*d*4) δ 29.62 (m, 43), 29.90 (m, 42), 36.47 (m, 44), 41.39 (m, 52), 41.89 (m, 41), 62.86 (m, 55), 72.09 (m, 53), 87.41 (m, 51), 88.73 (m, 54), 97.06 (m, 5), 126.74 (m, 64), 129.30 (m, 62, 66), 129.42 (m, 63, 65), 140.90 (m, 6), 143.54 (m, 61), 158.62 (m, 2), 165.40 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 0.86 (t, *J* = 6.7 Hz, 3H, 88), 1.25 – 1.28 (m, 10H, 83, 84, 85, 86, 87), 1.44 – 1.53 (m, 2H, 82), 3.18 – 3.27 (m, 2H, 81), 3.54 (ddd, *J* = 12.1, 5.3, 3.5 Hz, 1H, 55’), 3.66 (ddd, *J* = 12.0, 5.1, 3.1 Hz, 1H, 55’’), 3.82 (ddd, *J* = 4.3, 3.5, 3.0 Hz, 1H, 54), 3.89 – 3.99 (m, 2H, 52, 53), 4.94 (d, *J* = 4.8 Hz, 1H, 5316), 5.01 (t, *J* = 5.2 Hz, 1H, 5516), 5.24 (d, *J* = 4.7 Hz, 1H, 5216), 5.72 (d, *J* = 7.5 Hz, 1H, 5), 5.77 (d, *J* = 3.5 Hz, 1H, 51), 7.65 (t, *J* = 5.5 Hz, 1H, 414), 7.77 (d, *J* = 7.5 Hz, 1H, 6).

Spectrum: k

13C NMR (101 MHz, DMSO-*d*6) δ 13.87 (m, 88), 22.01 (m), 26.43 (m), 28.47 (m), 28.60 (m), 28.68 (m), 31.18 (m, 82, 83, 84, 85, 86, 87), 39.83 (m, 81), 60.60 (m, 55), 69.41 (m, 53), 73.93 (m, 52), 84.07 (m, 54), 89.12 (m, 51), 94.61 (m, 5), 140.14 (m, 6), 155.05 (m, 2), 162.91 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 0.85 (t, *J* = 6.8 Hz, 3H, 1010), 1.23 – 1.28 (m, 14H, 103, 104, 105, 106, 107, 108, 109), 1.44 – 1.50 (m, 2H, 102), 3.18 – 3.24 (m, 2H, 101), 3.53 (ddd, *J* = 12.1, 5.4, 3.5 Hz, 1H, 55’), 3.64 (ddd, *J* = 12.1, 5.2, 3.1 Hz, 1H, 55’’), 3.80 (ddd, *J* = 4.1, 3.5, 3.0 Hz, 1H, 54), 3.89 – 3.96 (m, 2H, 52, 53), 4.92 (d, *J* = 5.2 Hz, 1H, 5316), 4.99 (t, *J* = 5.2 Hz, 1H, 5516), 5.23 (d, *J* = 5.1 Hz, 1H, 5216), 5.71 (d, *J* = 7.5 Hz, 1H, 5), 5.75 (d, *J* = 3.7 Hz, 1H, 51), 7.63 (t, *J* = 5.5 Hz, 1H, 414), 7.75 (d, *J* = 7.4 Hz, 1H, 6).

Spectrum: l

13C NMR (101 MHz, DMSO-*d*6) δ 13.87 (m, 1010), 22.03 (m), 26.45 (m), 28.53 (m), 28.64 (m), 28.75 (m), 28.92 (m), 28.97 (m), 31.23 (m, 102, 103, 104, 105, 106, 107, 108, 109), 39.75 (m, 101), 60.64 (m, 55), 69.43 (m, 53), 73.93 (m, 52), 84.03 (m, 54), 89.19 (m, 51), 94.54 (m, 5), 140.12 (m, 6), 155.32 (m, 2), 163.18 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 1.86 (d, *J* = 1.0 Hz, 3H, 512), 1.97 (ddd, *J* = 13.3, 7.6, 6.0 Hz, 1H, 52’), 2.09 (ddd, *J* = 13.1, 6.0, 3.3 Hz, 1H, 52’’), 3.24 (s, 3H, 327), 3.39 – 3.44 (m, 2H, 321), 3.44 – 3.56 (m, 11H, 322, 323, 324, 325, 326), 3.56 – 3.59 (m, 1H, 55’’), 3.61 (ddd, *J* = 11.8, 5.3, 3.8 Hz, 1H, 55’), 3.77 (ddd, *J* = 4.2, 3.7, 3.0 Hz, 1H, 54), 4.23 (ddt, *J* = 6.0, 4.3, 3.3 Hz, 1H, 53), 4.97 (t, *J* = 5.3 Hz, 1H, 5516), 5.16 (d, *J* = 4.3 Hz, 1H, 5316), 6.19 (dd, *J* = 7.5, 6.0 Hz, 1H, 51), 7.11 (t, *J* = 5.3 Hz, 1H, 414), 7.61 (d, *J* = 1.1 Hz, 1H, 6).

Spectrum: m

13C NMR (75 MHz, Acetonitrile-*d*3) δ 12.37 (m, 512), 40.35 (m, 52), 40.40 (m, 321), 57.97 (m, 327), 61.83 (m, 55), 68.67 (m), 69.98 (m), 70.02 (m), 70.10 (m), 70.88 (m, 322, 323, 324, 325, 326), 71.63 (m, 53), 86.25 (m, 51), 87.42 (m, 54), 102.55 (m, 5), 138.11 (m, 6), 156.25 (m, 2), 163.48 (m, 4).

1H NMR (400 MHz, DMSO-*d*6) δ 0.85 (t, *J* = 6.8 Hz, 3H, 1010), 1.23 – 1.29 (m, 14H, 103, 104, 105, 106, 107, 108, 109), 1.46 – 1.56 (m, 2H, 102), 1.84 (d, *J* = 1.1 Hz, 3H, 512), 2.19 (ddd, *J* = 14.2, 8.8, 5.9 Hz, 1H, 52’), 2.28 (ddd, *J* = 14.0, 5.7, 1.8 Hz, 1H, 52’’), 3.25 – 3.29 (m, 2H, 101), 3.40 – 3.65 (m, 12H, 55, 62, 63, 64, 65, 66), 4.02 (td, *J* = 3.6, 1.8 Hz, 1H, 54), 4.20 – 4.25 (m, 2H, 61), 4.54 (t, *J* = 5.5 Hz, 1H, 616), 5.13 (dt, *J* = 5.9, 1.8 Hz, 1H, 53), 5.15 (t, *J* = 5.3 Hz, 1H, 5516), 6.17 (dd, *J* = 8.8, 5.6 Hz, 1H, 51), 7.14 (t, *J* = 5.7 Hz, 1H, 414), 7.54 – 7.58 (m, 1H, 6).

Spectrum: n

13C NMR (101 MHz, DMSO-*d*6) δ 13.09 (m, 512), 13.88 (m, 1010), 22.02 (m), 26.41 (m), 28.51 (m), 28.63 (m), 28.78 (m), 28.90 (m), 28.95 (m), 31.23 (m, 102, 103, 104, 105, 106, 107, 108, 109), 36.96 (m, 52), 40.18 (m, 101), 60.18 (m, 66), 61.37 (m, 55), 67.01 (m), 68.06 (m), 69.72 (m), 72.31 (m, 61, 62, 63, 64, 65), 78.62 (m, 53), 84.04 (m, 51), 84.60 (m, 54), 102.02 (m, 5), 136.91 (m, 6), 153.84 (m, 5312), 154.90 (m, 2), 162.65 (m, 4).

1H NMR (300 MHz, DMSO-*d*6) δ 0.85 (t, *J* = 6.6 Hz, 3H, 1212), 1.21 – 1.30 (m, 18H, 123, 124, 125, 126, 127, 128, 129, 1210, 1211), 1.46 – 1.57 (m, 2H, 122), 1.86 (s, 3H, 512), 2.20 (ddd, *J* = 14.1, 8.8, 5.8 Hz, 1H, 52’), 2.30 (ddd, *J* = 14.1, 5.8, 1.8 Hz, 1H, 52’’), 3.26 – 3.33 (m, 2H, 121), 3.40 – 3.66 (m, 12H, 55, 62, 63, 64, 65, 66), 4.04 (td, *J* = 3.6, 1.8 Hz, 1H, 54), 4.18 – 4.27 (m, 2H, 61), 4.55 (t, *J* = 5.4 Hz, 1H, 616), 5.15 (dt, *J* = 5.8, 1.8 Hz, 1H, 53), 5.19 (t, *J* = 5.4 Hz, 1H, 5516), 6.19 (dd, *J* = 8.8, 5.6 Hz, 1H, 51), 7.19 (t, *J* = 5.6 Hz, 1H, 414), 7.59 (s, 1H, 6).

Spectrum: o

13C NMR (75 MHz, DMSO-*d*6) δ 13.10 (m, 512), 13.86 (m, 1212), 22.09 (m), 26.51 (m), 28.59 (m), 28.73 (m), 28.90 (m), 29.05 (m), 29.08 (m), 31.31 (m, 122, 123, 124, 125, 126, 127, 128, 129, 1210, 1211), 37.12 (m, 52), 40.27 (m, 121), 60.25 (m, 66), 61.43 (m, 55), 68.13 (m), 69.76 (m), 69.81 (m), 72.38 (m, 61, 62, 63, 64, 65), 78.72 (m, 53), 84.18 (m, 51), 84.74 (m, 54), 102.15 (m, 5), 136.90 (m, 6), 153.90 (m, 5312), 155.08 (m, 2), 162.72 (m, 4).

Assignments: \*

2 = 2-C

4 = 4-C

5 = 5-C

6 = 6-C

21 = -NH-CH2-

22 = -NH-CH2-CH2-

321 = -NH-CH2-

322, 323, 324, 325, 326 = NH-CH2-CH2-O-CH2-CH2-O-CH2-CH2-O-

327 = -O-CH3

41 = -NH-CH2-

42 = -NH-CH2-CH2-

43 = -CH2-CH2-C6H5

44 = -CH2-C6H5

51 = 1′-C

512 = 5-CH3

52 = 2′-C

53 = 3′-C

5312 = -CO3-

54 = 4′-C

55 = 5′-C

5316 = 3′-OH

5516 = 5′-OH

414 = N4-H

61 = -NH-CH2-

62, 63, 64, 65 = -NH-(CH2)4-

66 = -CH2-CH3

81 = -NH-CH2-

82, 83, 84, 85, 86, 87 = -NH-CH2-(CH2)6-

88 = -CH2-CH3

101 = -NH-CH2-

102, 103, 104, 105, 106, 107, 108, 109 = -NH-CH2-(CH2)8-

1010 = -CH2-CH3

141 = -NH-CH2-

142, 143, 144, 145, 146, 147, 148, 149, 1410, 1411, 1412, 1413 = -NH-CH2-(CH2)12-

1414 = -CH2-CH3

121 = -NH-CH2-

122, 123, 124, 125, 126, 127, 128, 129, 1210, 1211 = -NH-CH2-(CH2)10-

1212 = -CH2-CH3

Assignments: i

61 = -*i*-*Ph*

62, 66 = -*o*-*Ph*

63, 65 = -*m*-*Ph*

64 = -*p*-*Ph*

Assignments: j

61 = -*i*-*Ph*

62, 66 = -*o*-*Ph*

63, 65 = -*m*-*Ph*

64 = -*p*-*Ph*

Assignments: n

61, 62, 63, 64, 65 = -CO3-CH2OC2H4OCH2-CH2-OH

66 = -CH2-CH2-OH

Assignments: o

61, 62, 63, 64, 65 = -CO3-CH2OC2H4OCH2-CH2-OH

66 = -CH2-CH2-OH