SUPPORTING INFORMATION

Compound 2

Yield 77%; oil; $[\alpha]_D$ +12.4 (*c* 0.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 5.4 (m, 2H, CH=CH), 4.9 (m, 1H, α-CH), 3.7 (s, 3H, OCH_3), 2.2-1.8 (m, 6H, CH_2CH, CH_2CH=CHCH_2), 1.5 (s, 18H, 2×$(CH_3)_3$C), 1.3 (m, 6H, 3×CH_2), 0.9 (t, *J*=7Hz, 3H, CH_3).

Compound 3

Yield 82%; oil; $[\alpha]_D$ -7.8 (*c* 0.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 5.4 (m, 2H, CH=CH), 5.1 (br, 1H, OCONH), 4.3 (m, 1H, α-CH), 2.2-1.6 (m, 6H, CH_2CH=CHCH_2, CH_2CH), 1.5 (s, 9H, $(CH_3)_3$C), 1.3 (m, 6H, 3×CH_2), 0.9 (t, *J*=7Hz, 3H, CH_3).

Compound 4

Yield 84%; oil; $[\alpha]_D$ +3.6 (*c* 0.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 5.4 (m, 2H, CH=CH), 4.6 (br, 1H, OCONH), 3.7-3.5 (m, 3H, CH_2OH, α-CH), 2.2-1.9 (m, 4H, CH_2CH=CHCH_2), 1.6-1.4 (m, 11H, CH_2CH, $(CH_3)_3$C), 1.3 (m, 6H, 3×CH_2), 0.9 (t, *J*=7Hz, 3H, CH_3); MS (FAB) *m/z* (%): 308 (12) [M+Na^+], 286 (9) [M+H^+], 230 (68), 186 (100). Anal. Calcd for $C_{16}H_{31}NO_3$: C, 67.33; H, 10.95; N, 4.91. Found: C, 67.09; H, 11.24; N, 4.82. Enantiomeric excess >95% was indicated by ^{1}H NMR and ^{19}F NMR analysis of the corresponding Mosher ester.

Compound 5

Yield 63%; oil; $[\alpha]_D$ +1.8 (*c* 0.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 5.4 (m, 2H, CH=CH), 4.7 (br, 1H, OCONH), 3.7 (m, 1H, α-CH), 3.4 (m, 4H, CH_2OCH_2), 2.2-1.9 (m, 4H, CH_2CH=CHCH_2), 1.7-1.2 (m, 31H, 11×CH_2, $(CH_3)_3$C), 0.9 (m, 6H, 2×CH_3); ^{13}C NMR (200MHz, $CDCl_3$) δ 155.6 (CO), 130.3 and 128.8 (CH=CH), 79.0 ($(CH_3)_3C$), 72.3 and 71.4 (2×CH_2O), 50.1 (α-CH), 32.2-22.5 ($C$$H_2$CHNH, $C$$H_2$$CH_2$O, $C$$H_2$CH=CH$C$$H_2$, lipidic chain), 29.3 (($C$$H_3$)$_3$C), 14.1 and 14.0 (2×$CH_3$); MS (FAB) *m/z* (%): 448 (7) [M+Na^+], 426 (52) [M^+], 326 (100).

Compound 6

Yield 100%; oil; $[\alpha]_D$ -1.4 (*c* 1.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 5.4 (m, 2H, CH=CH), 3.4 (m, 4H, CH_2OCH_2), 3.0 (m, 1H, α-CH), 2.2-1.4 (m, 6H, CH_2CH=CHCH_2, CH_2CHNH), 1.3 (m, 22H, 11×CH_2), 0.9 (m, 6H, 2×CH_3).

Compound 7

Yield 68%; oil; $[\alpha]_D$ +4 (*c* 0.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 6.5 (d, *J*=8Hz, 1H, CONH,), 5.3 (m, 2H, CH=CH), 4.1 (m, 2H, CH(OH)CO, α-CH), 3.4 (m, 4H, CH_2OCH_2), 2.7 (br, 1H, OH), 2.1-1.9 (m, 4H, CH_2CH=CHCH_2), 1.8-1.5 (m, 6H, CH(OH)CH_2, OCH_2CH_2, CH_2CHNH), 1.4-1.2 (m, 42H, 21×CH_2), 0.9 (m, 9H, 3×CH_3); ^{13}C NMR (200MHz, $CDCl_3$) δ 173.3 (CO), 130.7 and 128.5 (CH=CH), 72.0 (CHOH), 71.9 and 71.5 (2×CH_2O), 48.5 (α-CH), 35.1-22.5 ($C$$H_2$CHNH, $C$$H_2$$CH_2$O, $C$$H_2$CH=CH$C$$H_2$, lipidic chain), 14.1-14.0 (3×CH_3).

Compound 8

Yield 57%; oil; $[\alpha]_D$ +3.1 (*c* 0.5, $CHCl_3$); ^{1}H NMR (200MHz, $CDCl_3$) δ 7.1 (d, *J*=8Hz, 1H, CONH), 5.4 (m, 2H, CH=CH), 4.0 (m, 1H, α-CH), 3.4 (m, 4H, CH_2OCH_2), 2.9 (t, *J*=7Hz, 2H, CH_2CO), 2.1-1.9 (m, 4H, CH_2CH=CHCH_2), 1.8-1.5 (m, 6H, C$H_2$$CH_2$CO, OCH_2CH_2, CH_2CHNH), 1.4-1.1 (m, 42H, 21×CH_2), 0.9 (m, 9H, 3×CH_3); ^{13}C NMR (200MHz, $CDCl_3$) δ 199.4 (COCONH), 159.7 (CONH), 130.9 and 128.2 (CH=CH), 71.5 (CH_2OCH_2), 49.0 (α-CH), 36.8 ($C$$H_2$CO), 31.9-22.3 ($C$$H_2$$CH_2$O, $C$$H_2$CH=CH$C$$H_2$, lipidic chain), 14.1-14.0 (3×CH_3); MS (FAB) *m/z* (%): 579 (24) [M+H^+], 578 (100) [M^+], 352 (12), 225 (18). Anal. Calcd for $C_{37}H_{71}NO_3$: C, 76.89; H, 12.38; N, 2.42. Found: C, 76.62; H, 12.56; N, 2.34.