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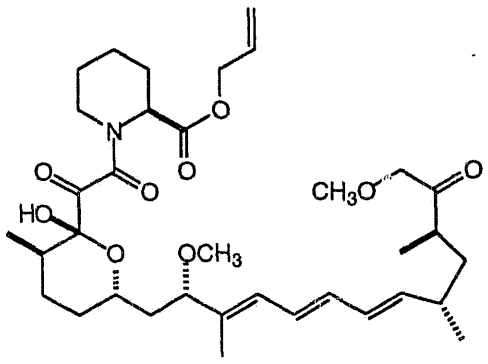
Supporting Information for *J. Am. Chem. Soc.*, **1993**, 115(20), 9345-9346, DOI: 10.1021/ja00073a083

HAYWARD
9345-9346

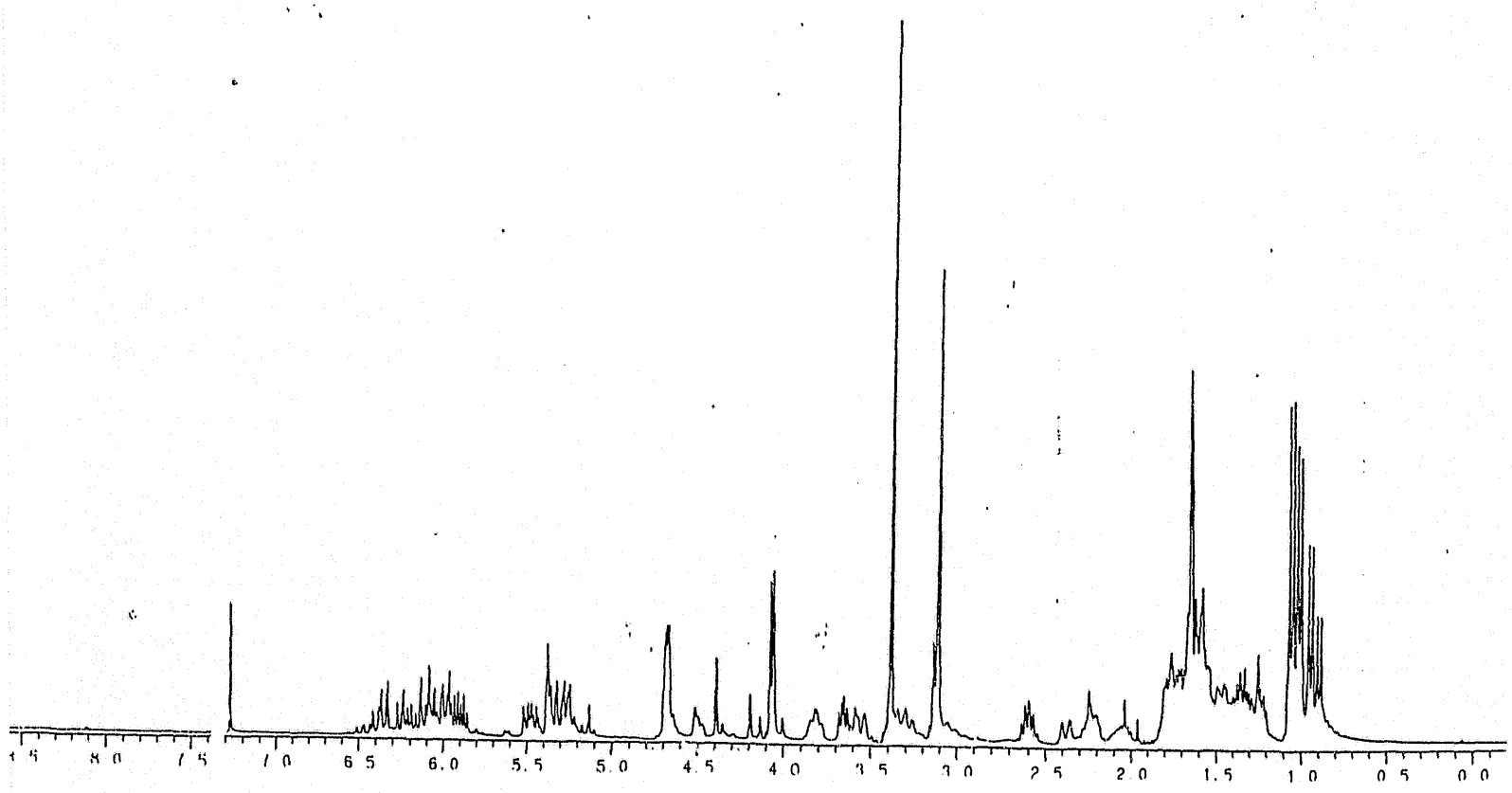
J-9346-M1



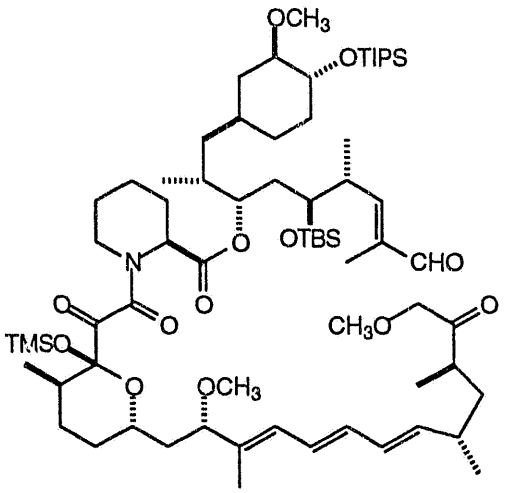
7

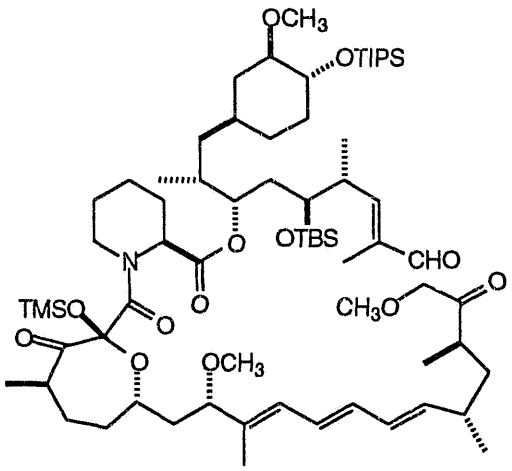
7: ^{13}C NMR (63 MHz, $CDCl_3$, major rotamer) δ 211.5, 194.5, 169.5, 166.8, 139.7, 135.9, 133.0, 131.6, 129.9, 128.8, 126.7, 118.7, 98.5, 84.0, 76.4, 67.6, 65.9, 59.2, 55.8, 51.4, 44.6, 40.3, 39.5, 35.4, 34.0, 31.2, 27.3, 26.6, 25.2, 21.3, 20.9, 20.8, 16.1 (2), 10.8; HRMS (FAB) calcd for $C_{35}H_{53}NO_9$ 631.3722, found 631.3739.

^1H NMR (300 MHz, $CDCl_3$):



J-9346-m2

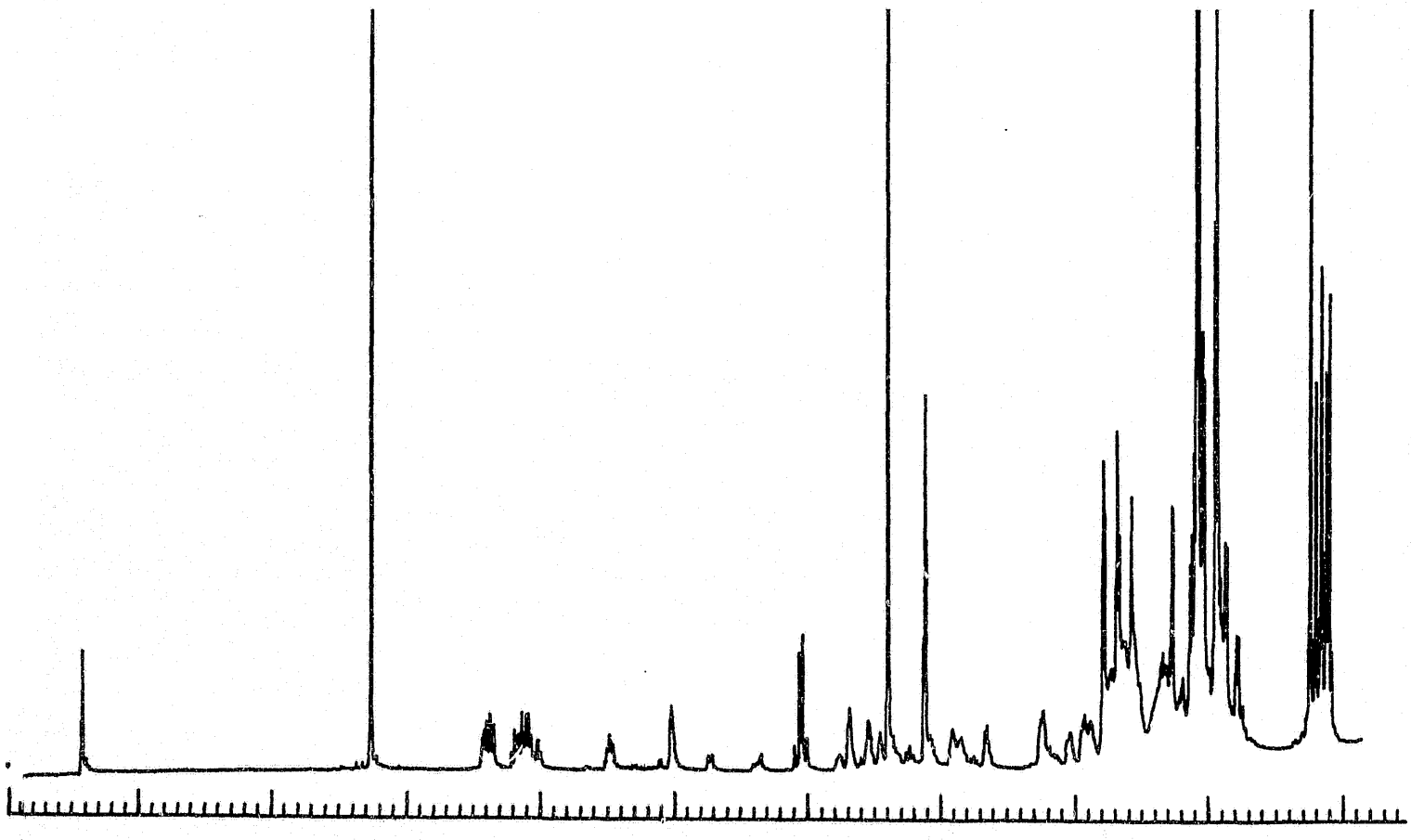




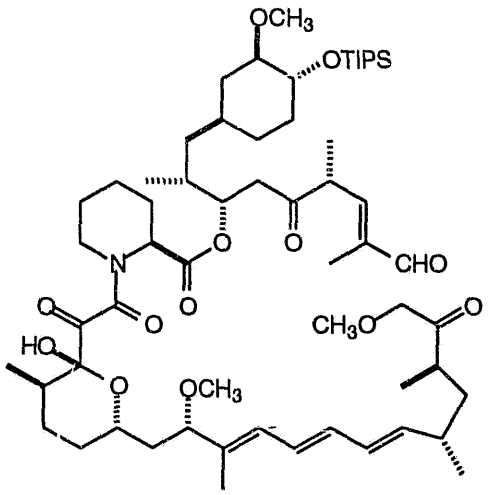
silylated precursor to **10** (see ref. 25)

silylated **10**: $[\alpha]^{25}_{D}$ -21.4° (c 1.41, $CHCl_3$); IR (neat) 2930, 2865, 1735, 1730, 1690, 1645, 1470, 1250, 1110, 1015, 990, 890 cm^{-1}; ^{13}C NMR (63 MHz, $CDCl_3$, major rotamer) δ 211.5, 209.3, 195.0, 170.5, 168.7, 155.1, 139.8, 139.6, 137.1, 133.0, 129.8, 127.8, 126.7, 100.4, 84.8, 83.9, 76.0, 75.5, 74.8, 72.2, 59.2, 57.4, 55.8, 52.1, 43.2, 42.9, 41.7, 40.3, 40.2, 39.7, 39.2, 36.2, 35.5, 34.7, 34.5, 34.2, 34.1, 33.2, 31.5, 31.3, 26.9, 26.1, 25.9, 25.1, 21.2, 21.0, 18.1, 16.9, 16.2, 15.3, 15.2, 12.7, 11.4, 9.5, 2.0, -4.1, -4.2; HRMS (FAB) calcd for $C_{69}H_{123}NNaO_{13}Si_3$ ($M+Na^+$) 1280.8204, found 1280.8271.

^1H NMR (490 MHz, $CDCl_3$):



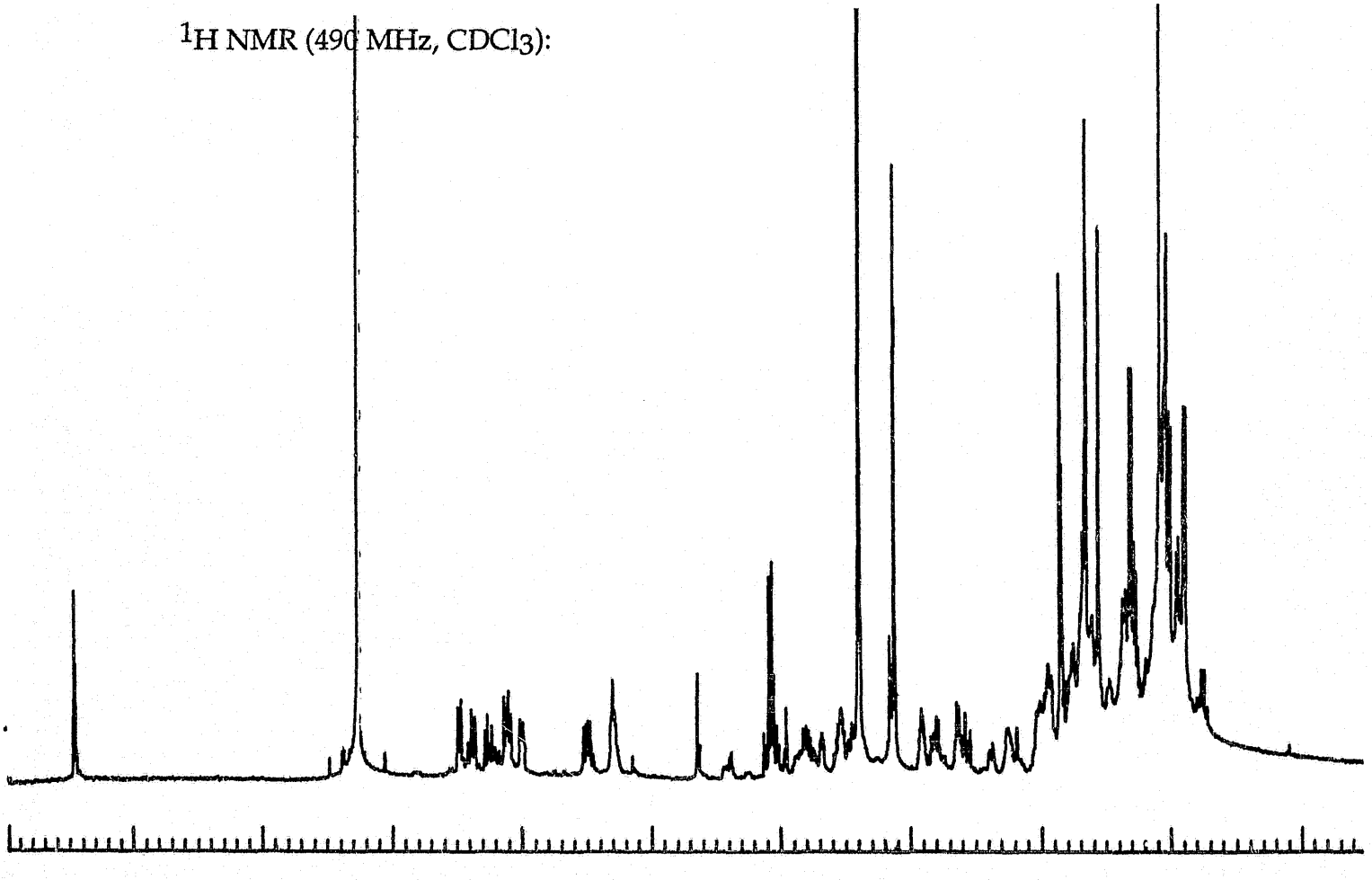
J-9346-m3



11

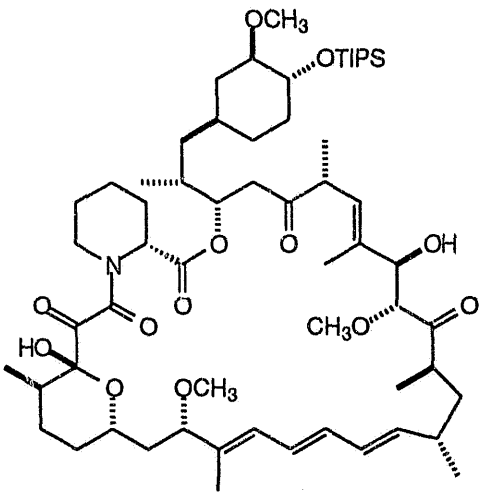
11: $[\alpha]^{25}_{D}$ -58.4° (c 1.6, $CHCl_3$); IR (neat) 2940, 2865, 1731, 1728, 1690, 1645, 1455, 1110, 990 cm^{-1}; ^{13}C NMR (63 MHz, $CDCl_3$, major rotamer) δ 211.4, 206.0, 196.4, 194.3, 168.8, 167.0, 150.1, 140.2, 139.6, 136.0, 132.9, 129.8, 128.9, 126.6, 98.6, 84.4, 83.9, 75.2, 74.2, 67.9, 67.2, 59.1, 57.4, 55.6, 51.0, 47.0, 44.3, 41.0, 40.2, 39.4, 38.9, 35.8, 35.3, 33.9, 33.4, 33.0, 32.9, 31.2, 31.1, 27.3, 26.1, 25.1, 21.2, 20.5, 17.9, 16.2, 16.1, 15.9, 15.7, 15.0, 12.5, 10.4, 9.4; HRMS (FAB) calcd for $C_{60}H_{99}NNaO_{13}Si$ ($M+Na^+$) 1092.6787, found 1092.6770.

^1H NMR (490 MHz, $CDCl_3$):



J. Am. Chem. Soc. v 115
p. 9345 Hayward

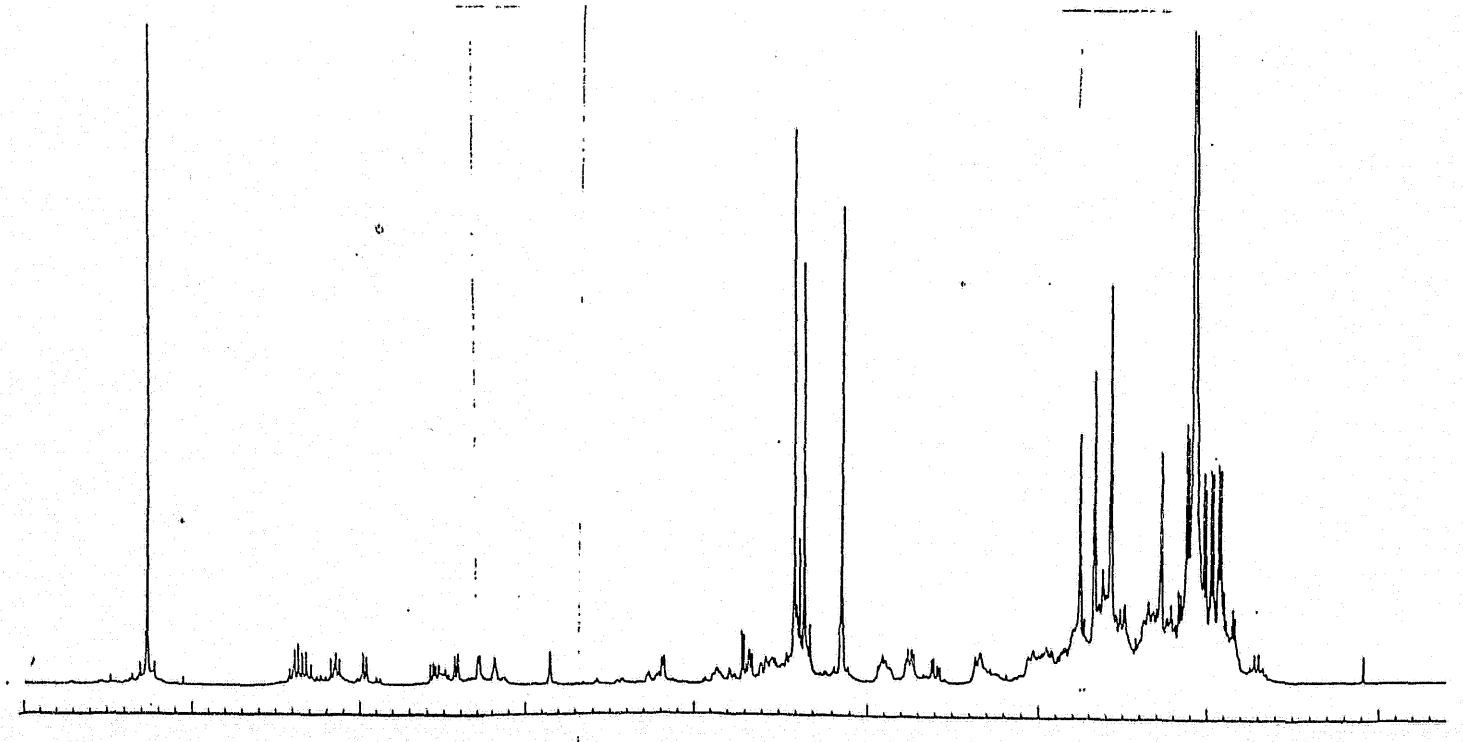
J-9346-M4



12

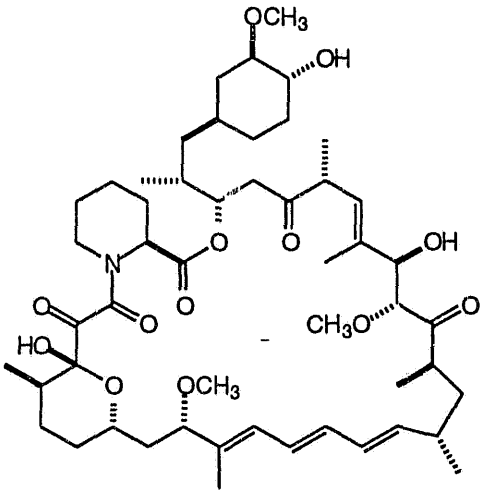
12: $[\alpha]^{25}_D$ -57.6° (c 0.25, $CHCl_3$); IR ($CHCl_3$) 2940, 2865, 1740, 1715, 1620, 1460, 1110; ^{13}C NMR (123 MHz, $CDCl_3$, major rotamer) δ 215.8, 208.2, 192.3, 169.2, 166.8, 140.2, 136.0, 135.4, 133.7, 130.2, 129.7, 126.9, 126.4, 98.5, 84.8, 84.6, 84.4, 76.4, 75.7, 75.4, 67.1, 59.5, 57.5, 55.9, 51.2, 46.6, 44.2, 41.4, 40.8, 40.2, 38.8, 38.2, 35.9, 35.2, 34.1, 33.7, 33.2, 33.0, 31.8, 31.3, 29.7, 27.3, 27.1, 25.3, 21.5, 20.6, 18.1, 16.3, 16.0, 13.8, 13.0, 12.6, 10.1; HRMS (FAB) calcd for $C_{60}H_{99}NNaO_{13}Si$ ($M+Na^+$) 1092.6787, found 1092.6844.

^1H NMR (490 MHz, $CDCl_3$):



J. Am. Chem. Soc. v 115
p. 9345 Hayward

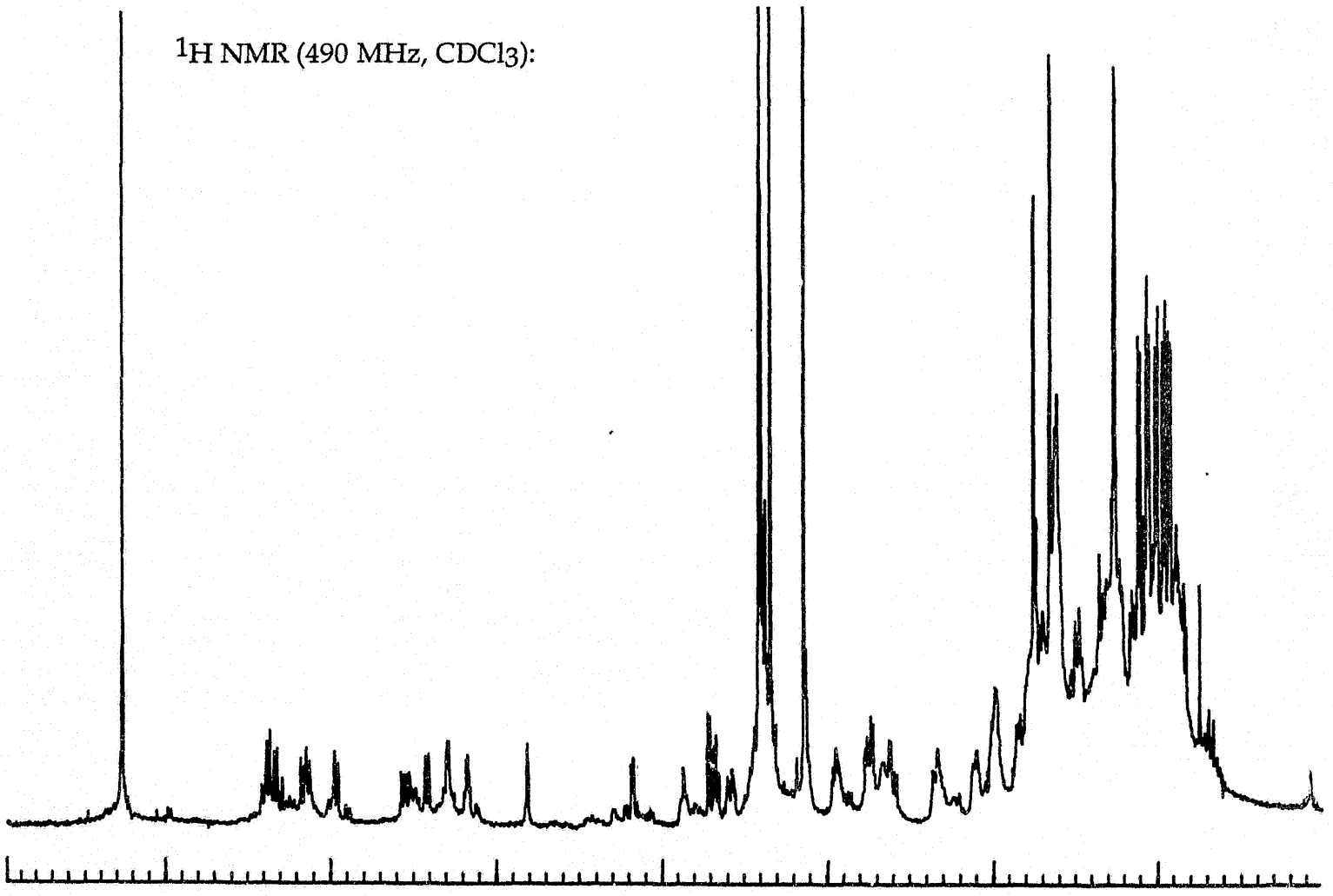
J-9346-m5



synthetic **1**

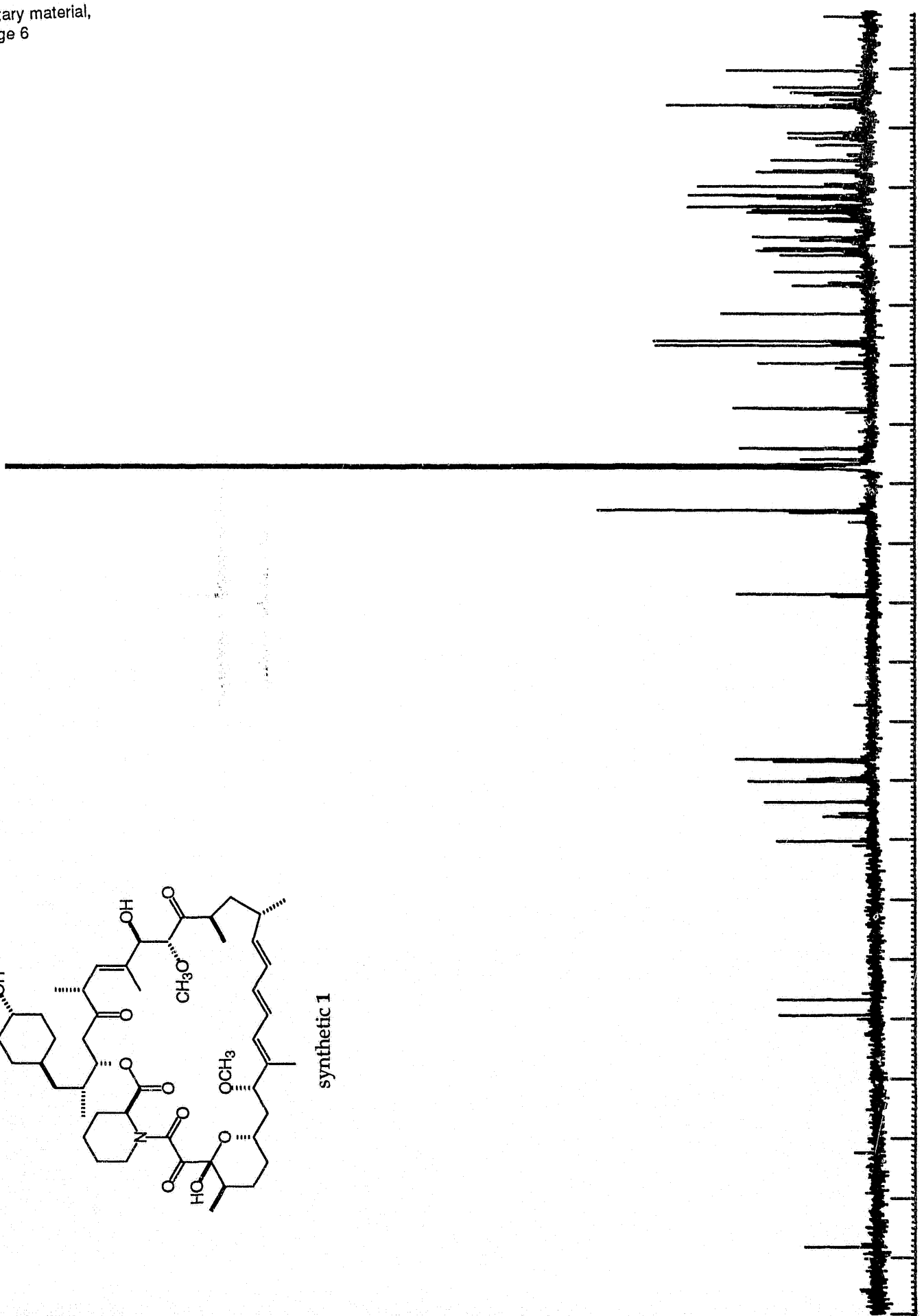
1: $[\alpha]^{25}_D$ -48.2° (c 0.81, $CHCl_3$); IR (neat) 3500 (br), 2925, 2875, 1720, 1640, 1455, 1090, 990, 755 cm^{-1}; ^{13}C NMR (123 MHz, $CDCl_3$, major rotamer) δ 215.8, 208.2, 192.4, 169.3, 166.8, 140.2, 136.1, 135.5, 133.6, 130.2, 129.6, 126.8, 126.4, 98.5, 84.8, 84.4 (2), 77.4, 75.7, 73.9, 67.2, 59.5, 56.6, 55.9, 51.2, 46.6, 44.2, 41.4, 40.6, 40.2, 38.8, 38.3, 35.2, 34.1, 33.7, 33.2, 33.1, 31.7, 31.3, 31.2, 27.3, 27.0, 25.3, 21.6, 20.6, 16.2, 16.0, 15.9, 13.8, 13.0, 10.2.

^1H NMR (490 MHz, $CDCl_3$):



J. Am. Chem. Soc. v 115
p. 9345 Hayward

J-9346-m6



synthetic 1