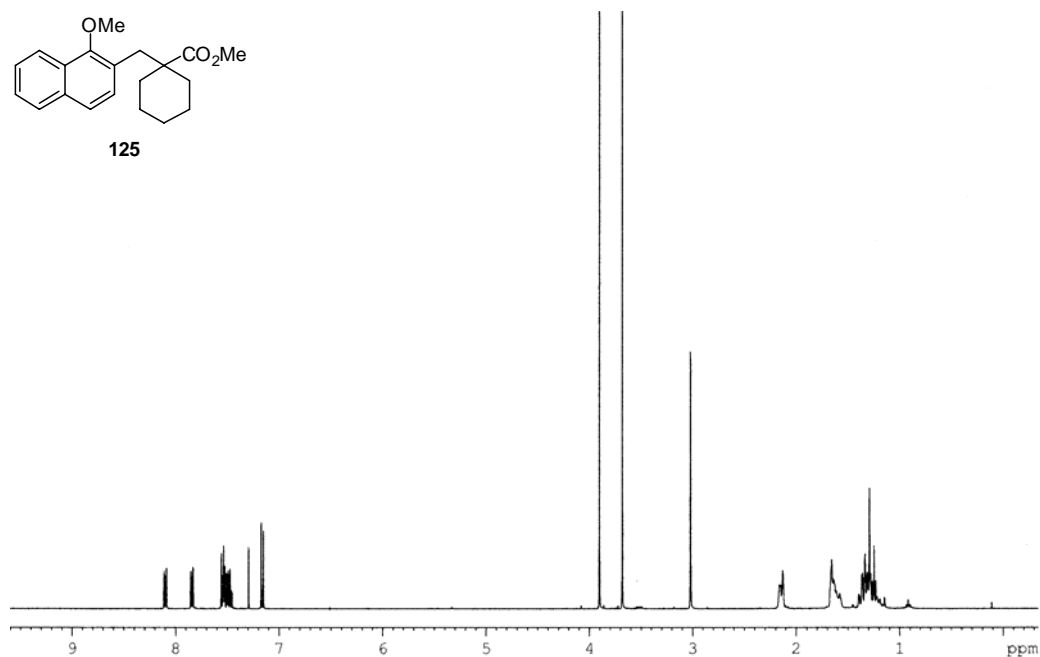
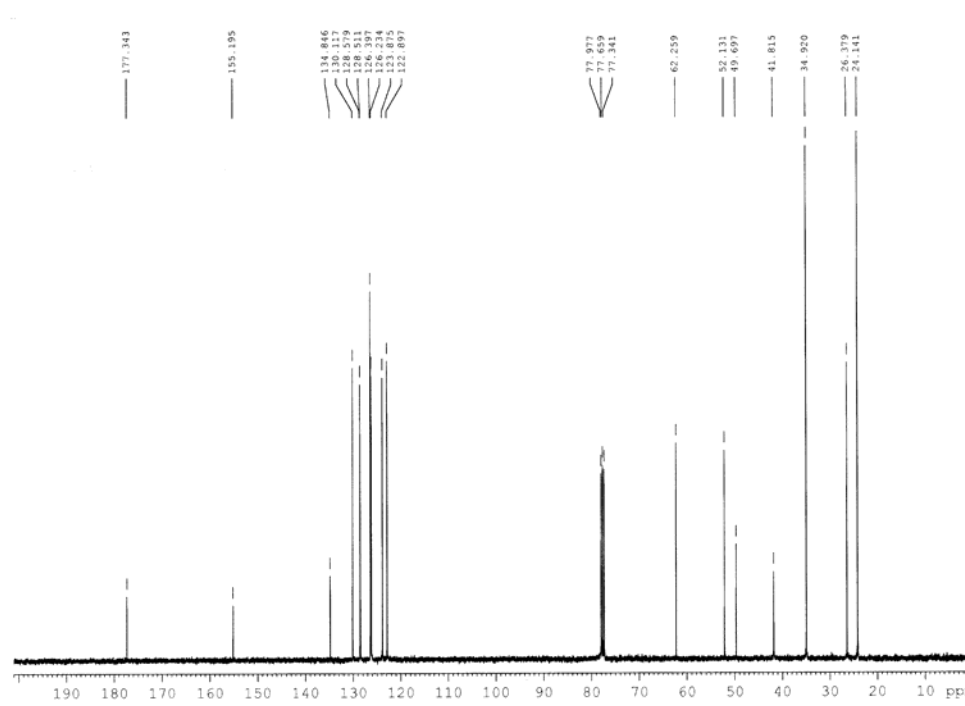


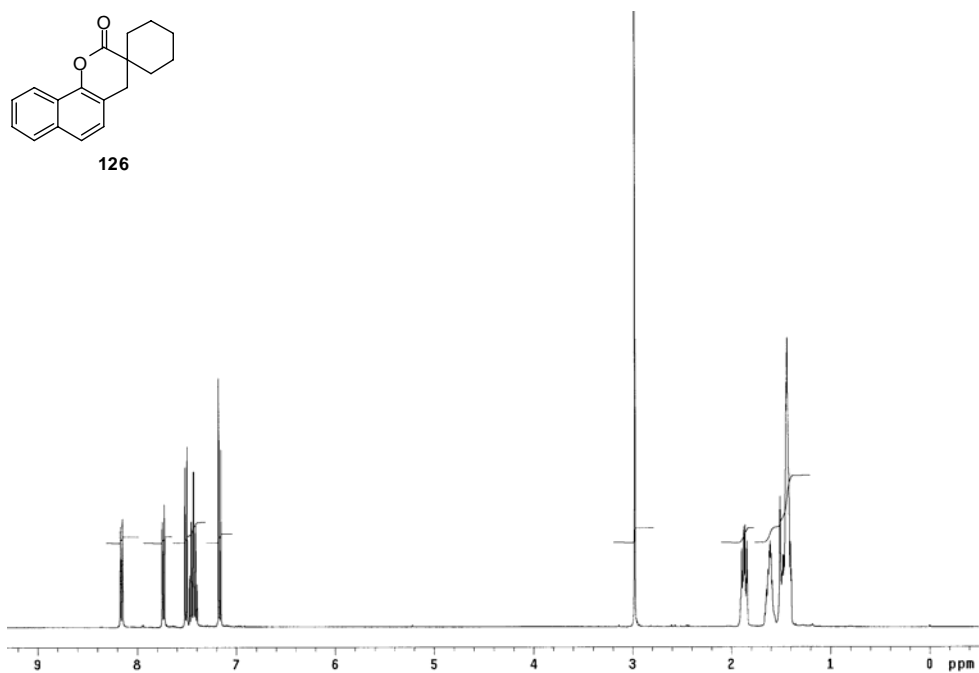
APPENDIX



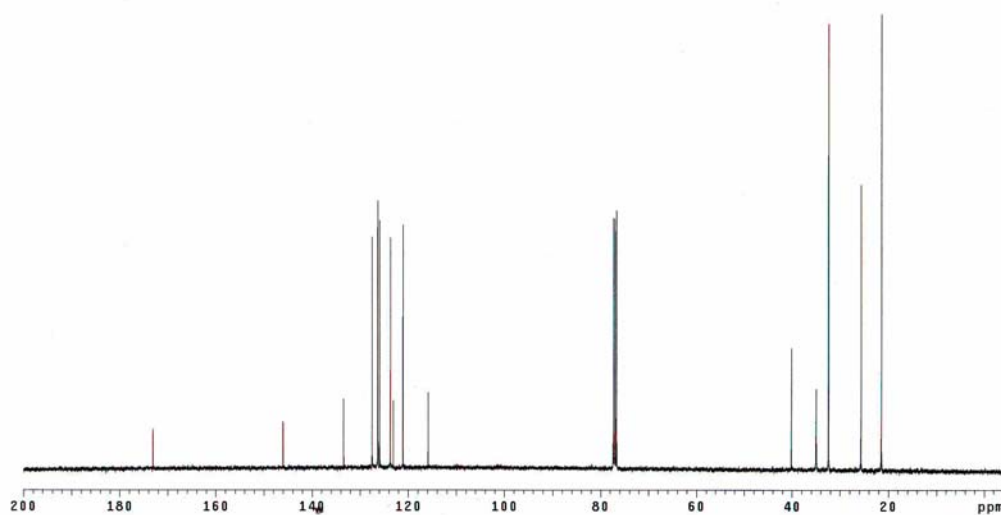
Appendix Figure 1 400 MHz ¹H NMR spectrum of methyl 1-((1-methoxynaphthalen-2-yl)methyl)cyclohexanecarboxylate (**125**)



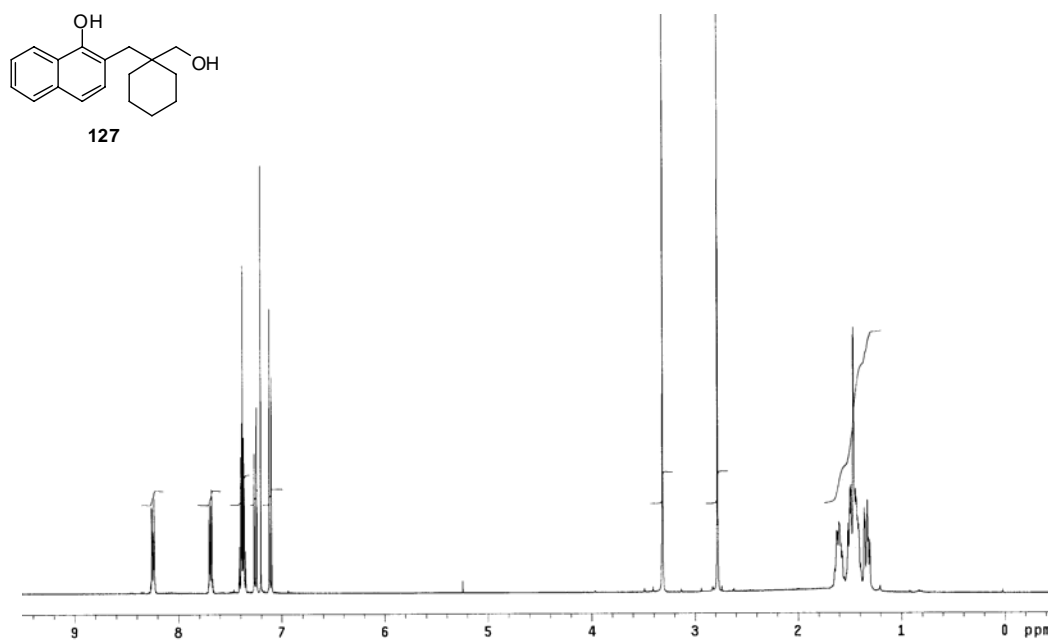
Appendix Figure 2 400 MHz ¹³C NMR spectrum of methyl 1-((1-methoxynaphthalen-2-yl)methyl)cyclohexanecarboxylate (**125**)



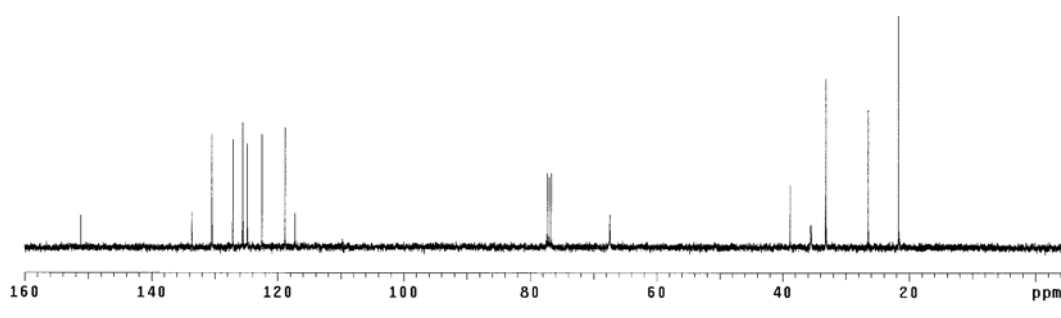
Appendix Figure 3 400 MHz ¹H NMR spectrum of 3,4-dihydro-2-spirocyclohexylbenzo[h]chromen-2-one (**126**)



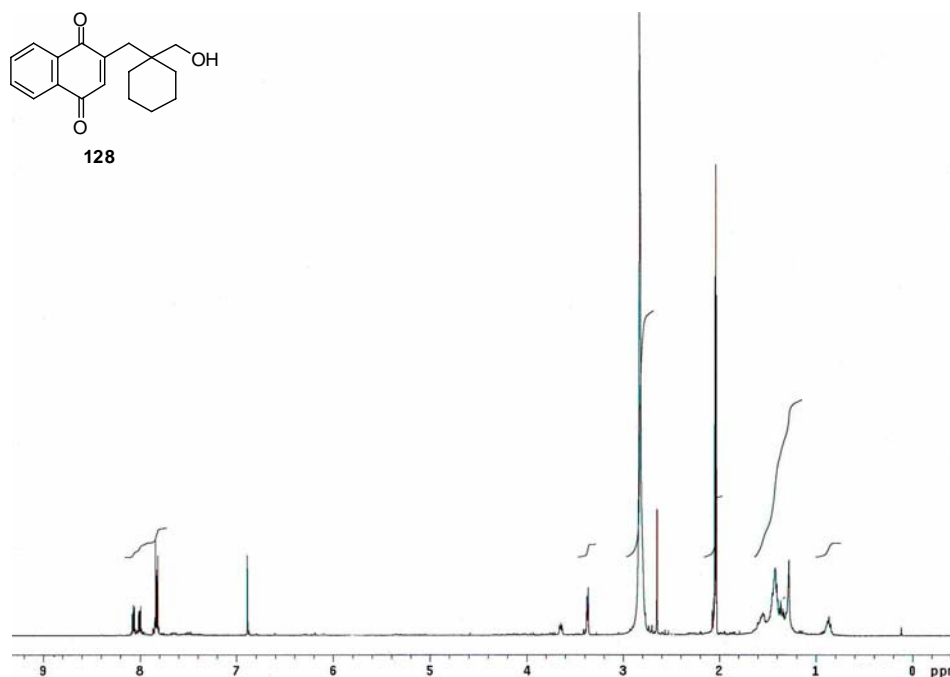
Appendix Figure 4 400 MHz ¹³C NMR spectrum of 3,4-dihydro-2-spirocyclohexylbenzo[h]chromen-2-one (**126**)



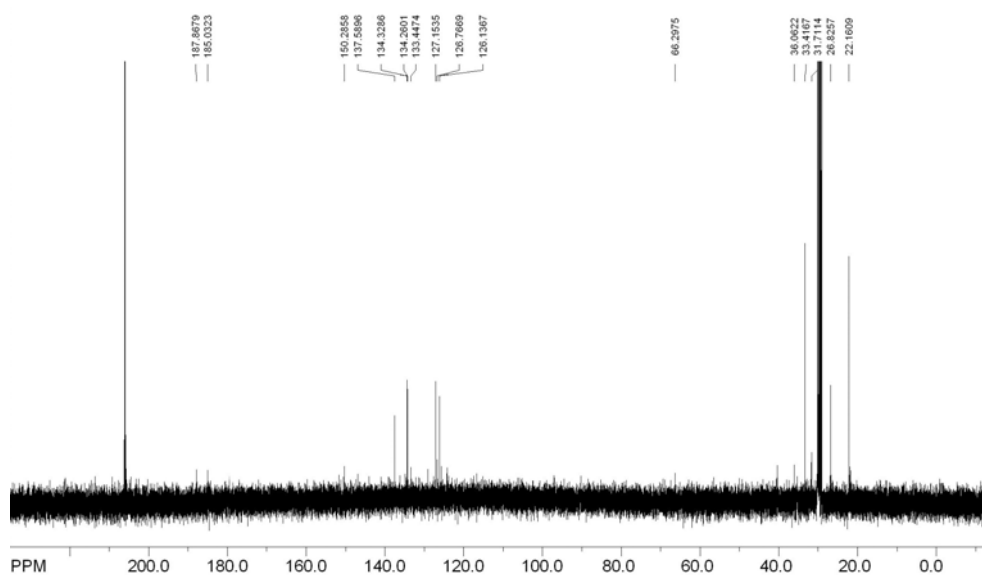
Appendix Figure 5 400 MHz ¹H NMR spectrum of 2-((1-(hydroxymethyl)cyclohexyl)methyl)naphthalen-1-ol (**127**)



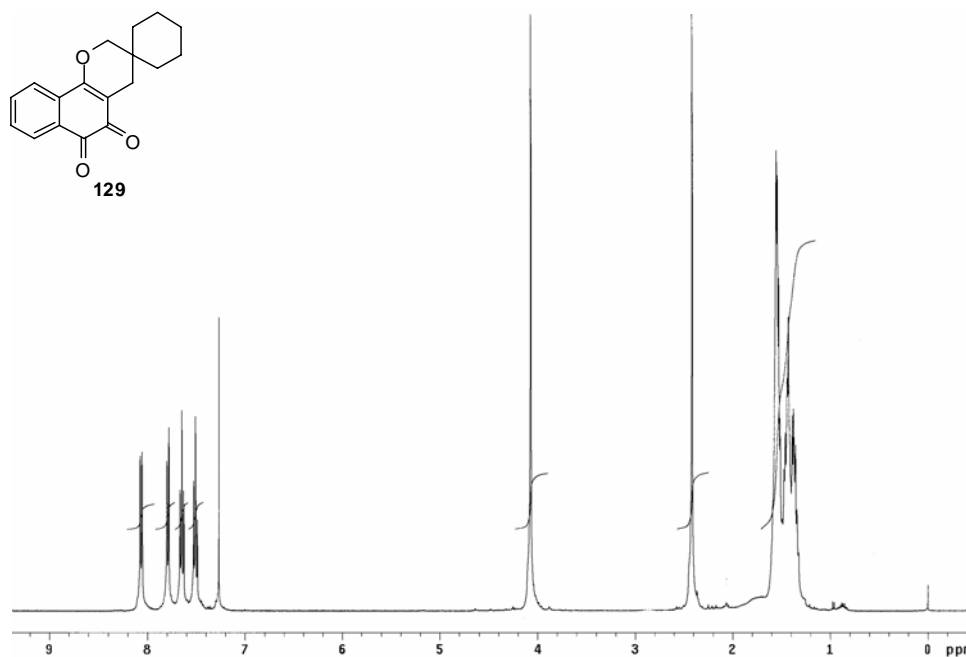
Appendix Figure 6 400 MHz ¹³C NMR spectrum of 2-((1-(hydroxymethyl)cyclohexyl)methyl)naphthalen-1-ol (**127**)



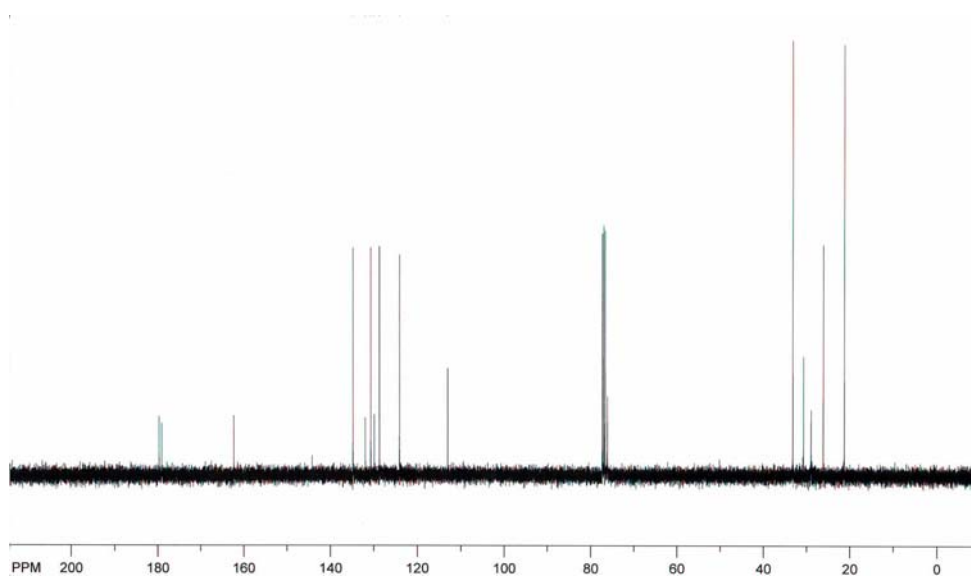
Appendix Figure 7 400 MHz ¹H NMR spectrum of 2-((1-(hydroxymethyl)cyclohexyl)methyl)naphthalene-1,4-dione (**128**)



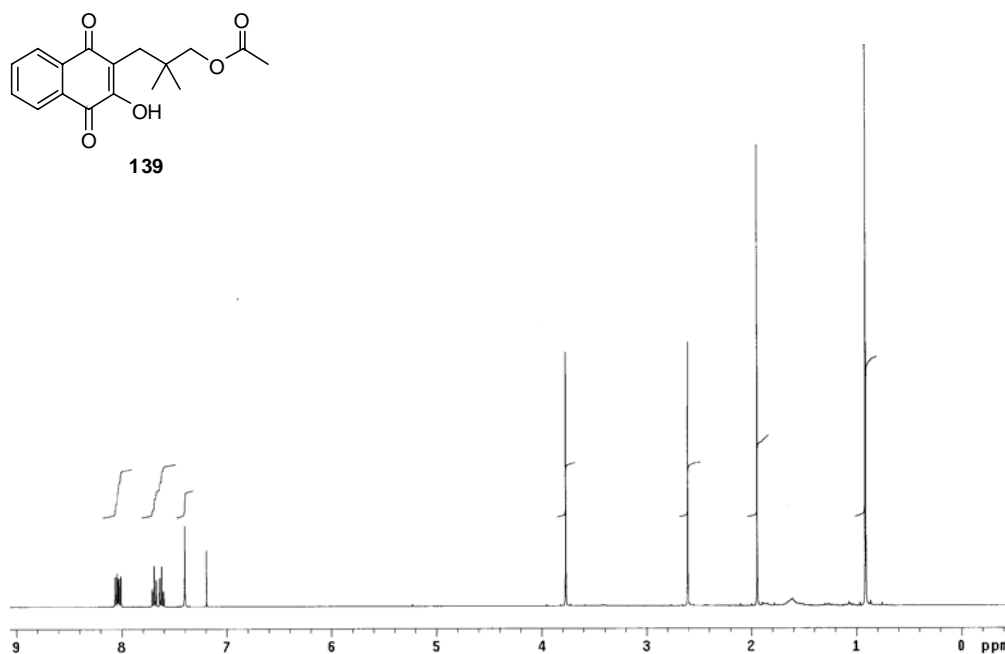
Appendix Figure 8 400 MHz ¹³C NMR spectrum of 2-((1-(hydroxymethyl)cyclohexyl)methyl)naphthalene-1,4-dione (**128**)



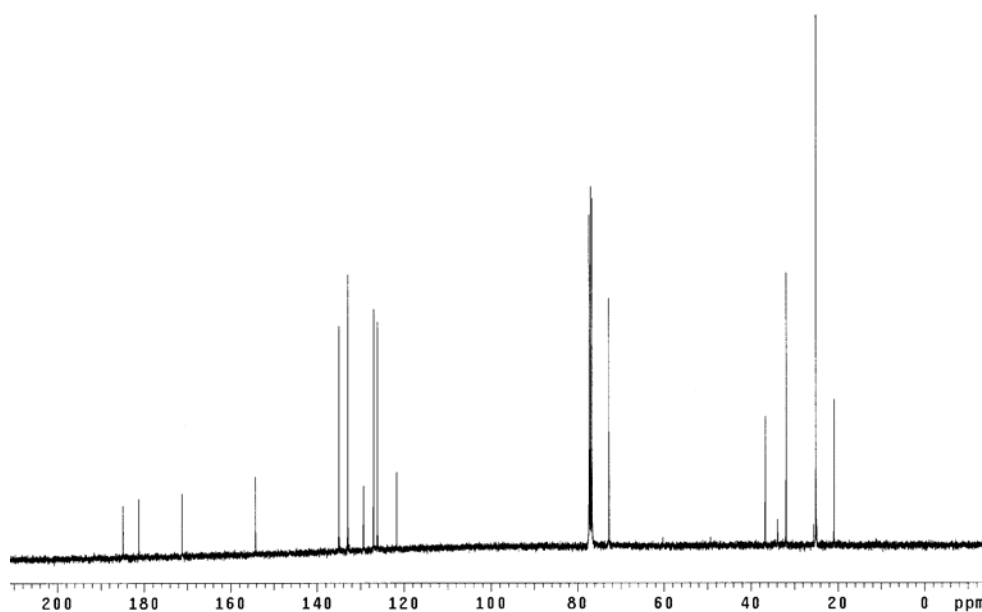
Appendix Figure 9 400 MHz ¹H NMR spectrum of 3,4-dihydro-3,3-spiro cyclohexyl-2H-naphtho[1,2-b]pyran-5,6-dione (**129**)



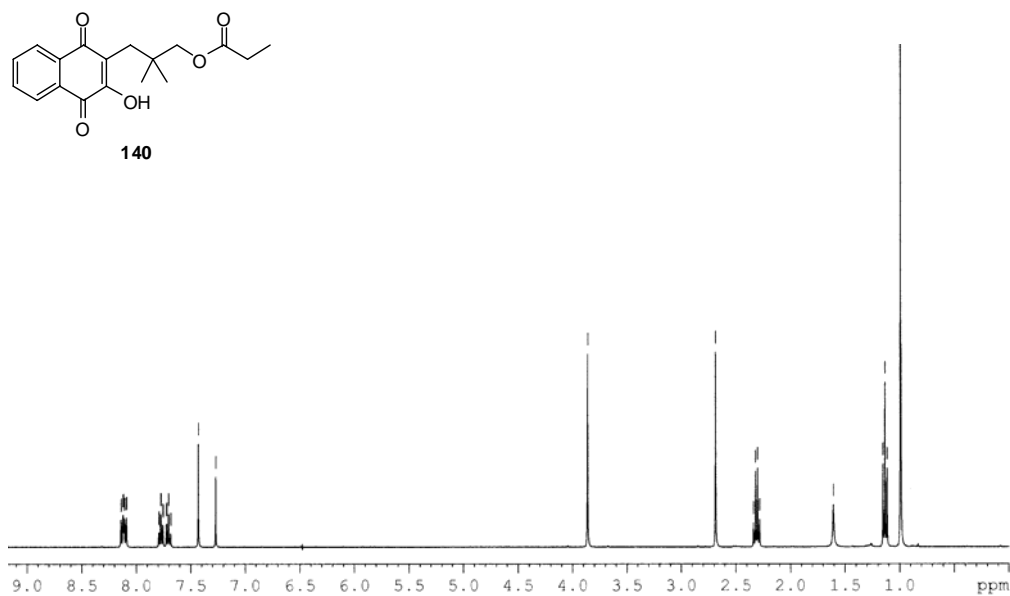
Appendix Figure 10 400 MHz ¹³C NMR spectrum of 3,4-dihydro-3,3-spiro cyclohexyl-2H-naphtho[1,2-b]pyran-5,6-dione (**129**)



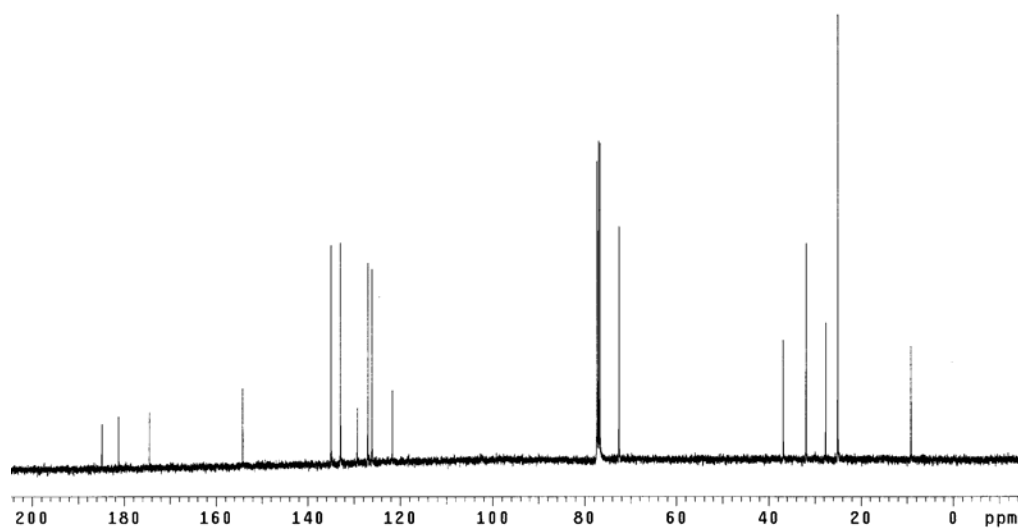
Appendix Figure 11 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl acetate (**139**)



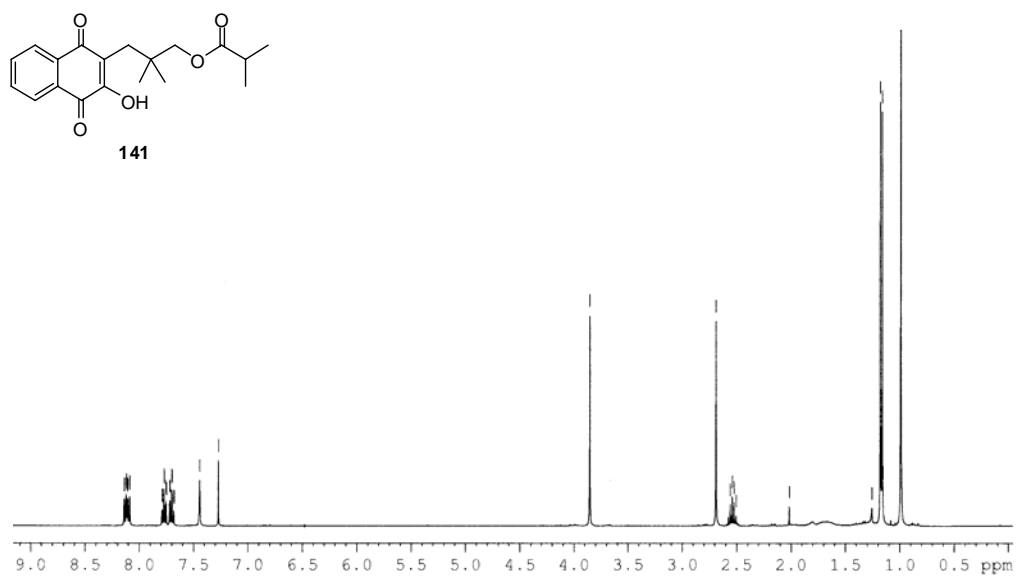
Appendix Figure 12 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl acetate (**139**)



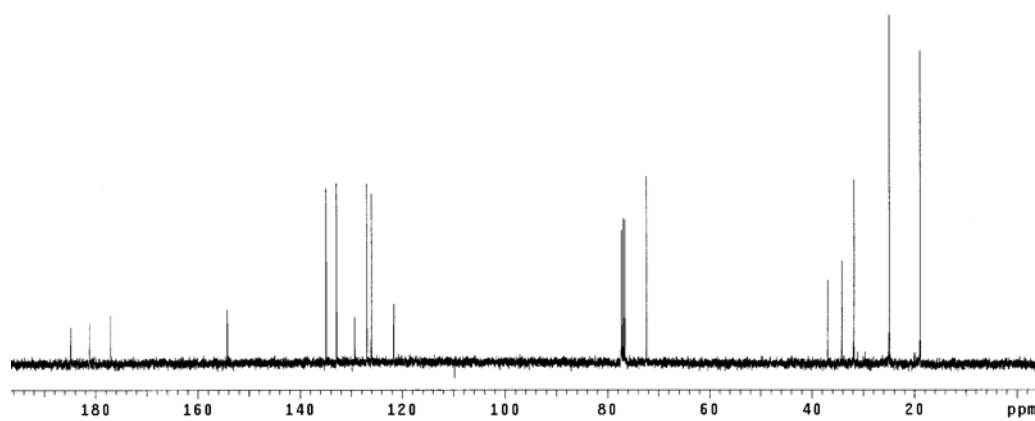
Appendix Figure 13 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl propionate (**140**)



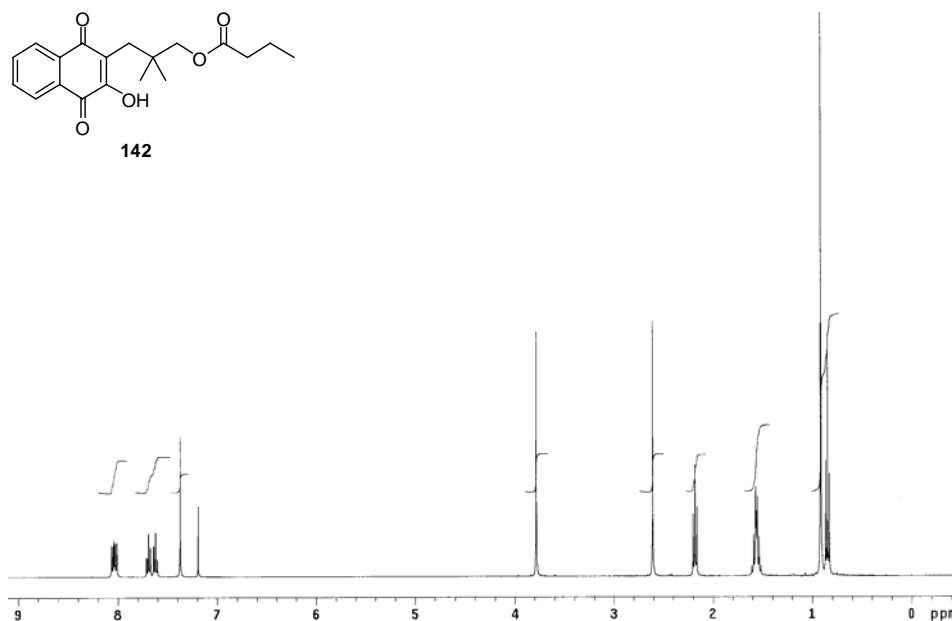
Appendix Figure 14 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl propionate (**140**)



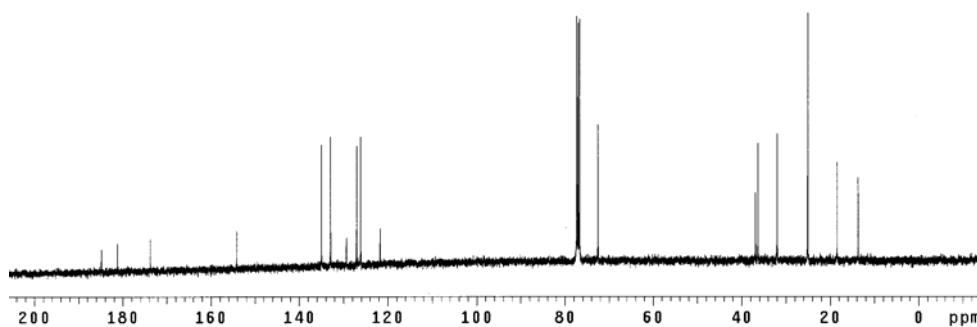
Appendix Figure 15 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl isobutyrate (**141**)



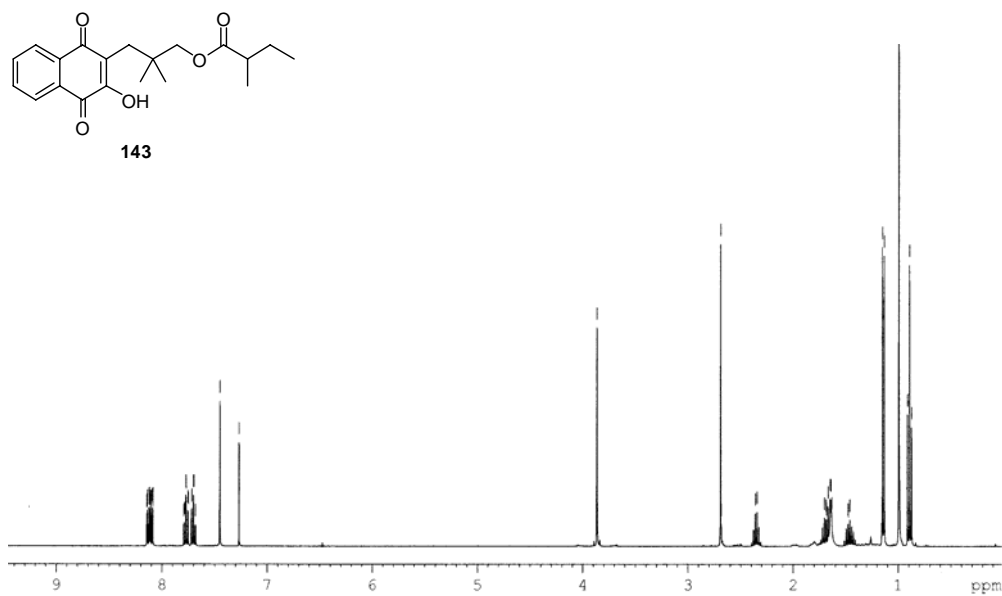
Appendix Figure 16 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl isobutyrate (**141**)



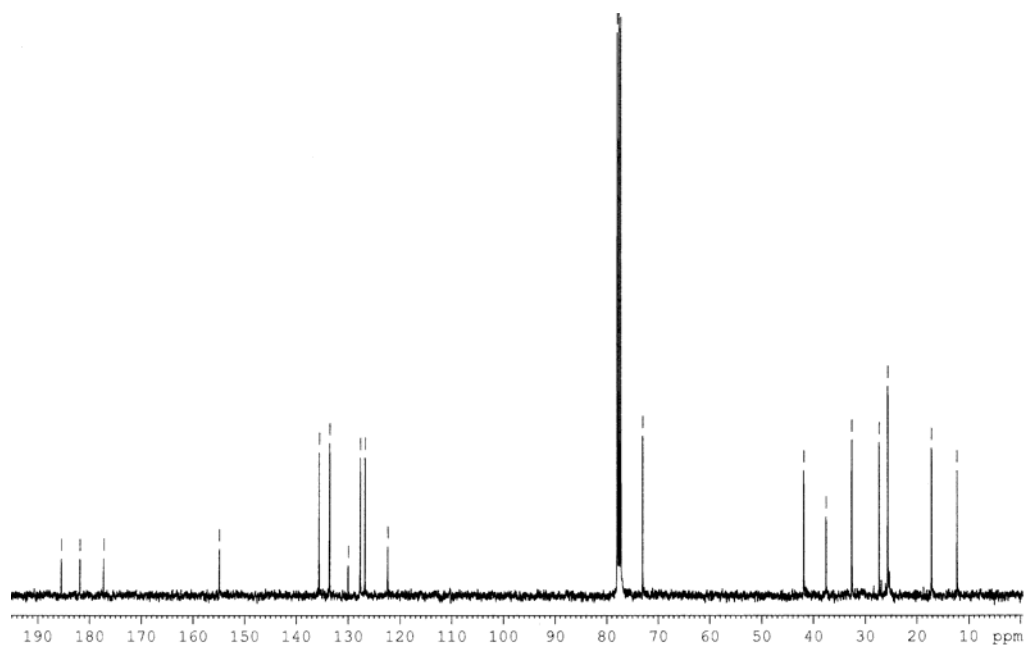
Appendix Figure 17 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl butyrate (**142**)



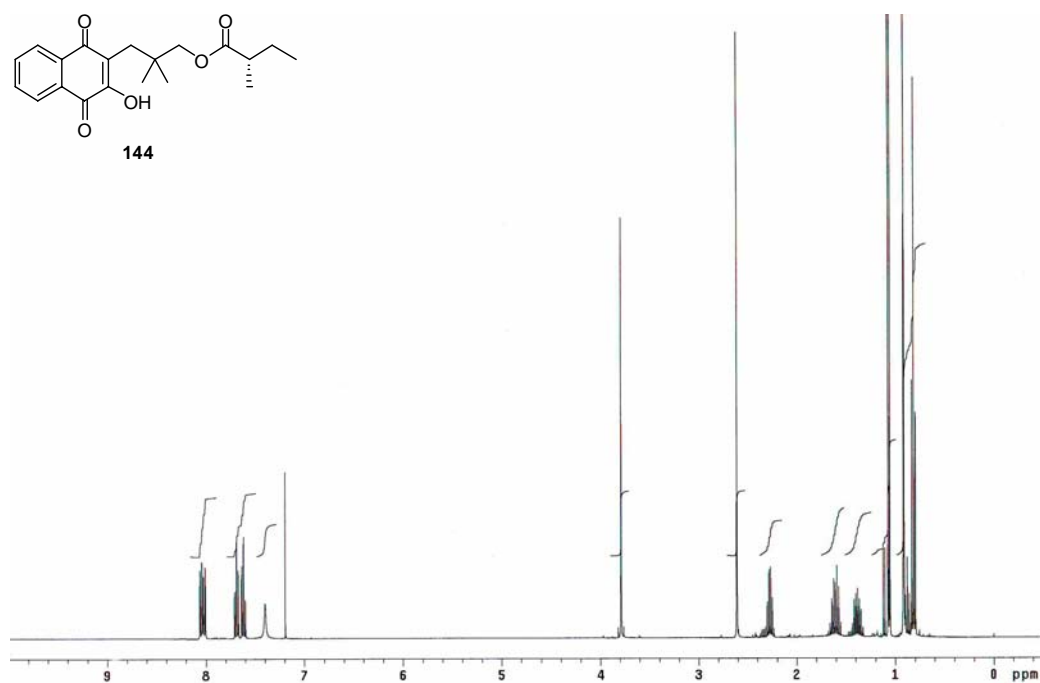
Appendix Figure 18 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl butyrate (**142**)



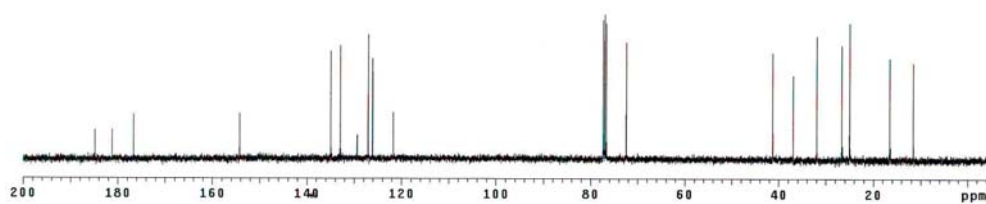
Appendix Figure 19 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methyl butanoate (**143**)



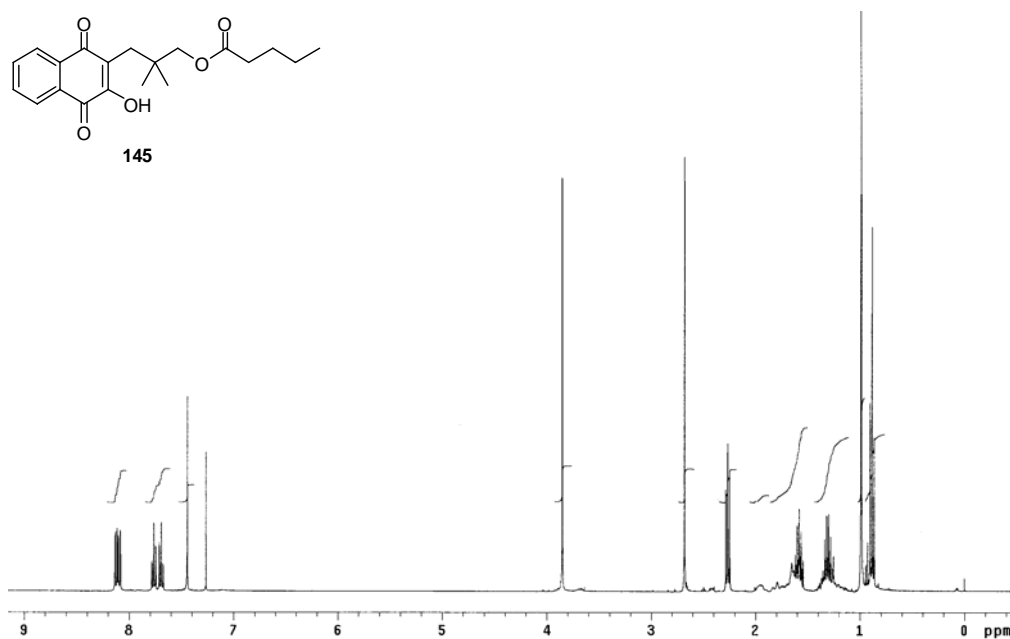
Appendix Figure 20 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methyl butanoate (**143**)



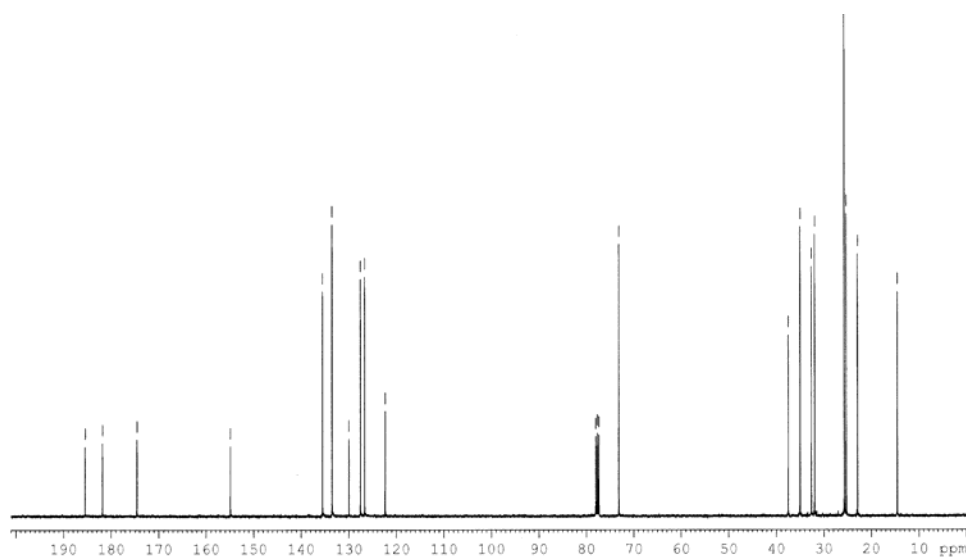
Appendix Figure 21 400 MHz ¹H NMR spectrum of (S)-3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methylbutanoate (**144**)



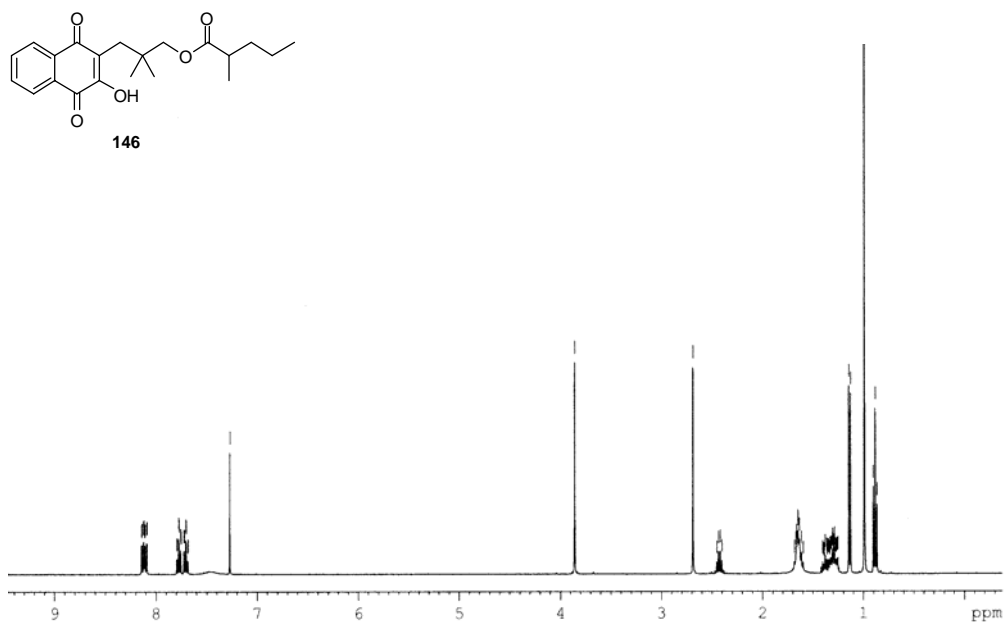
Appendix Figure 22 400 MHz ¹³C NMR spectrum of (S)-3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methylbutanoate (**144**)



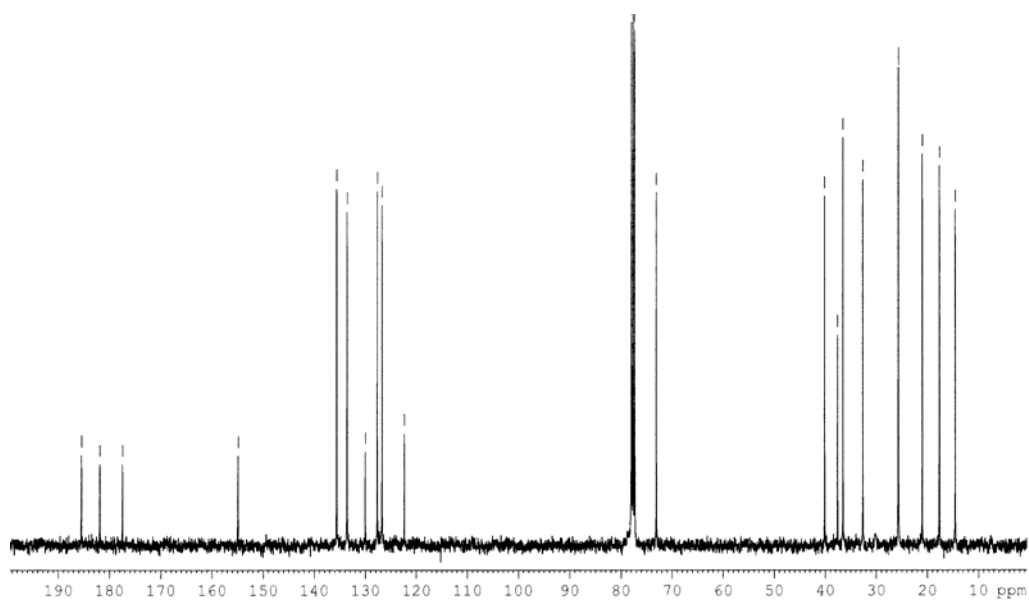
Appendix Figure 23 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl pentanoate (**145**)



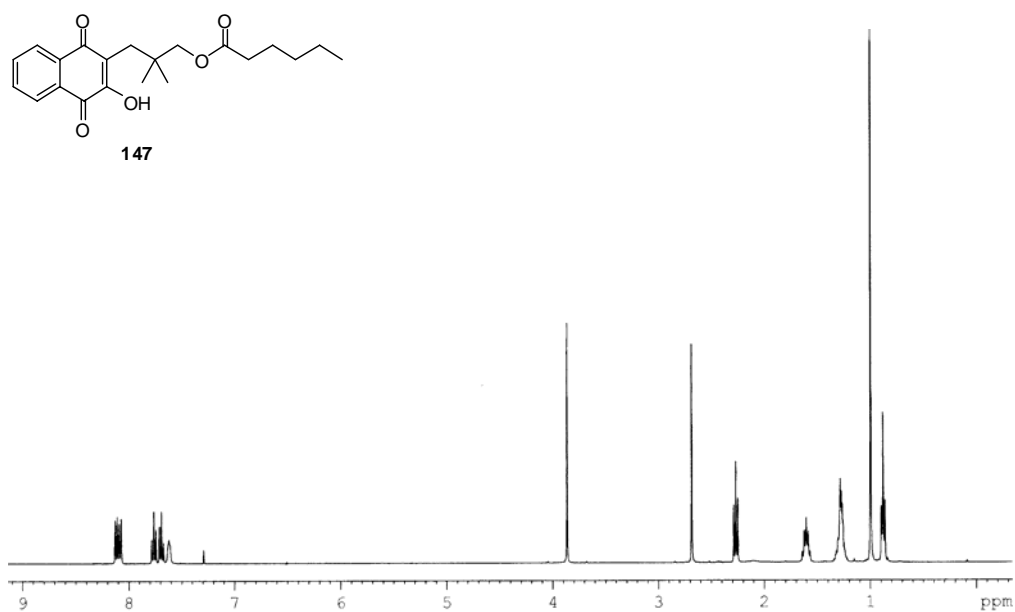
Appendix Figure 24 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl pentanoate (**145**)



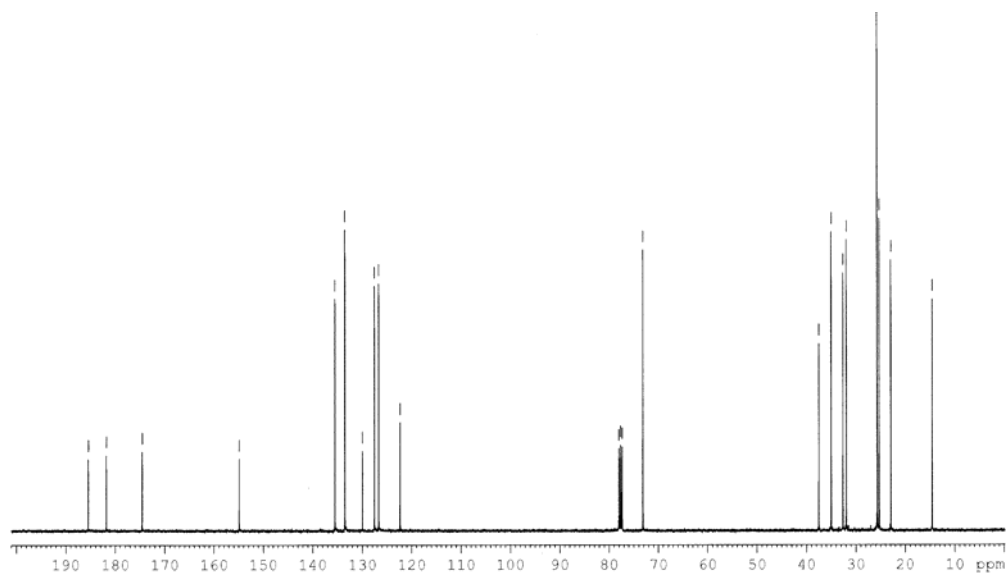
Appendix Figure 25 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methylpentanoate (146)



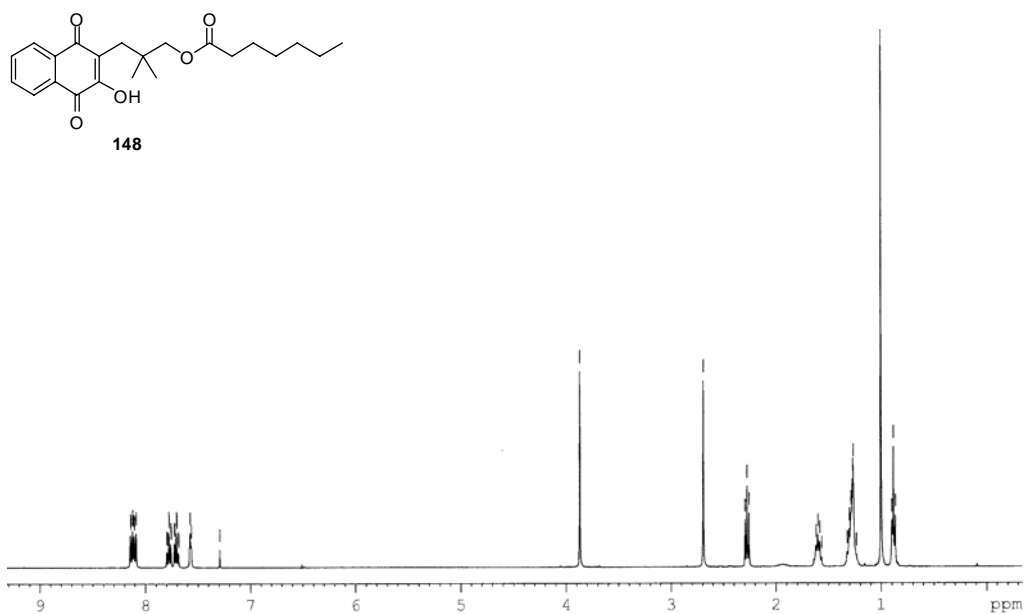
Appendix Figure 26 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methylpentanoate (146)



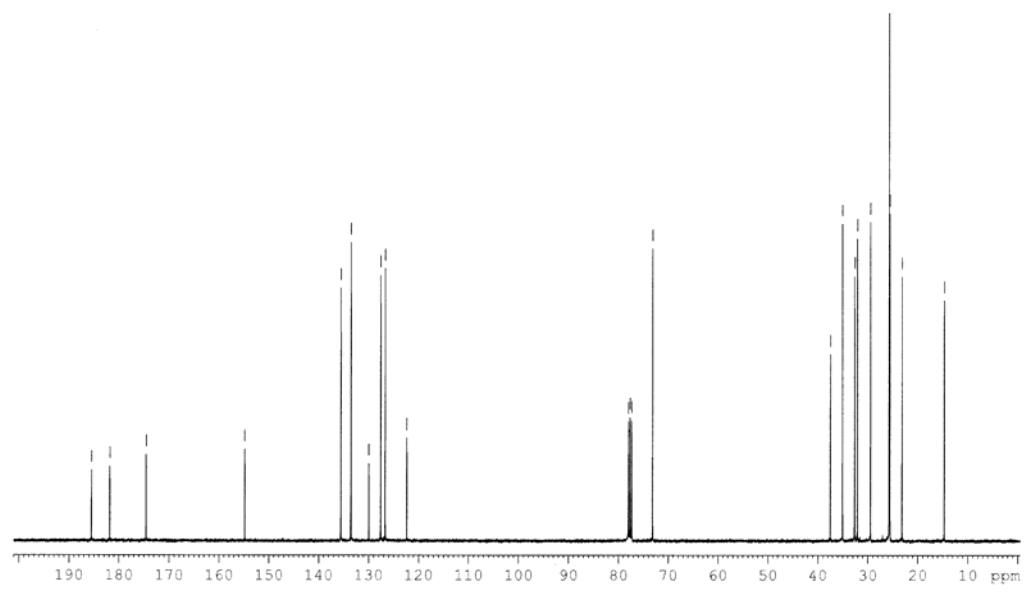
Appendix Figure 27 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl hexanoate (**147**)



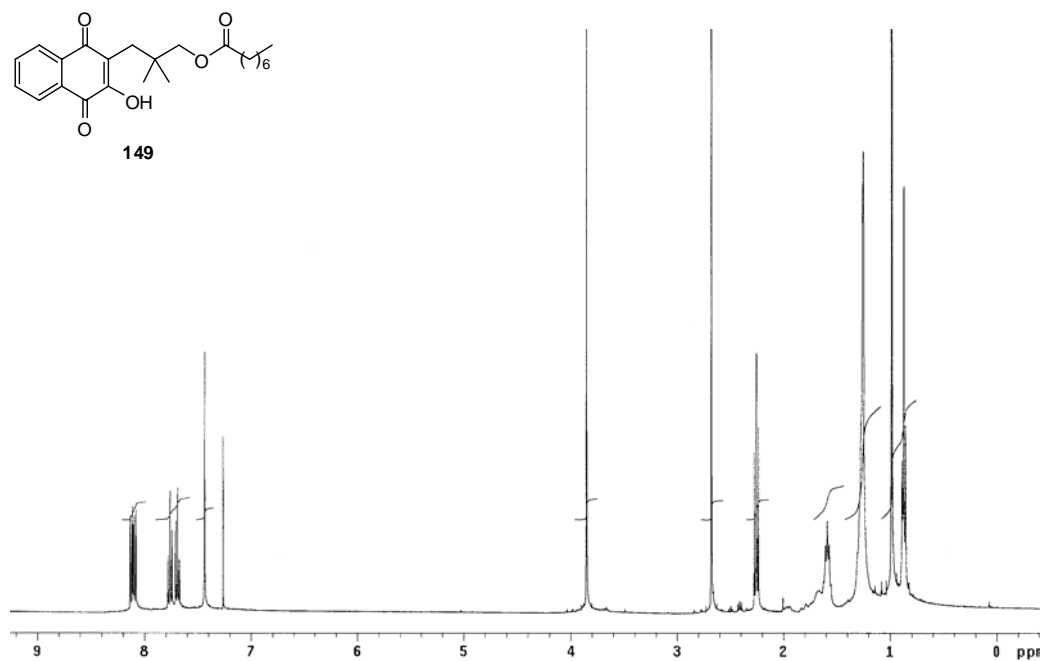
Appendix Figure 28 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl hexanoate (**147**)



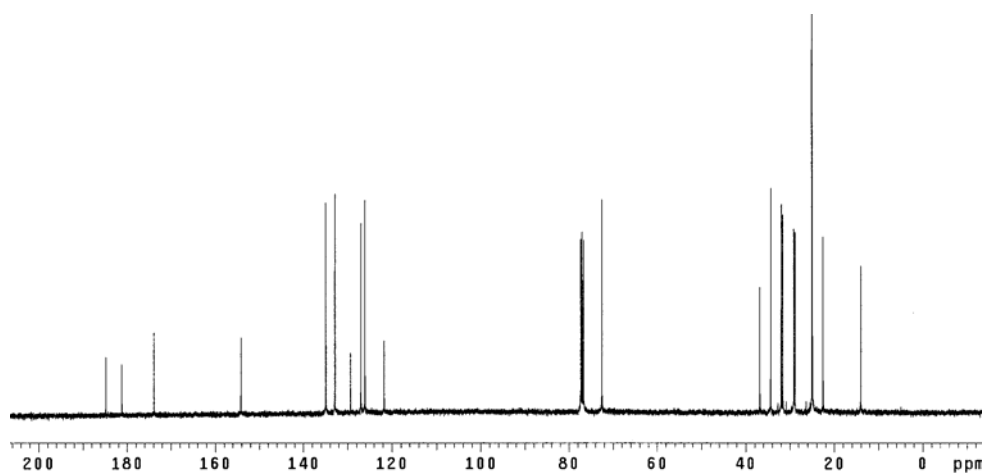
Appendix Figure 29 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl heptanoate (**148**)



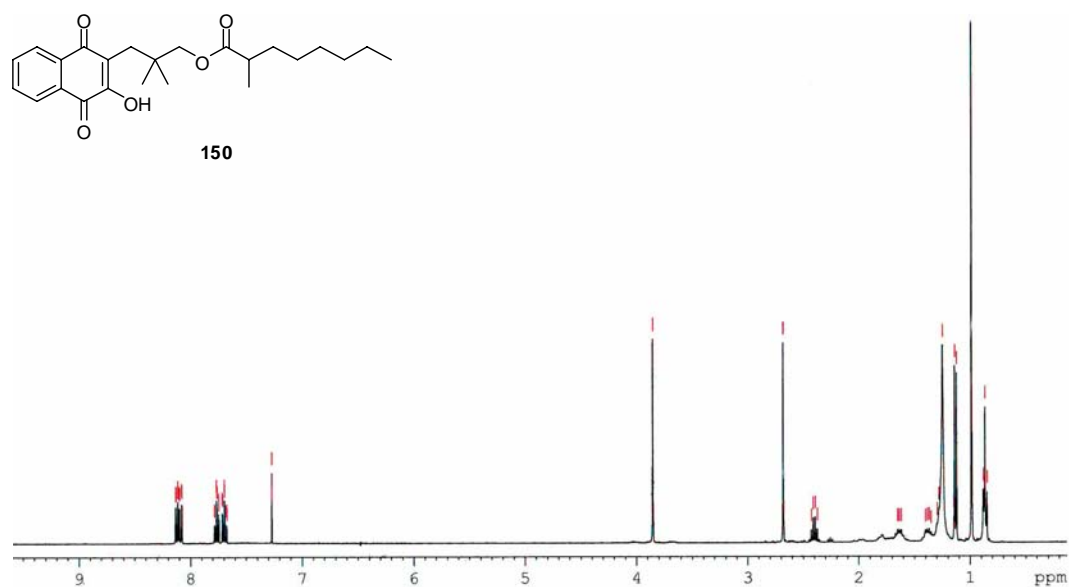
Appendix Figure 30 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl heptanoate (**148**)



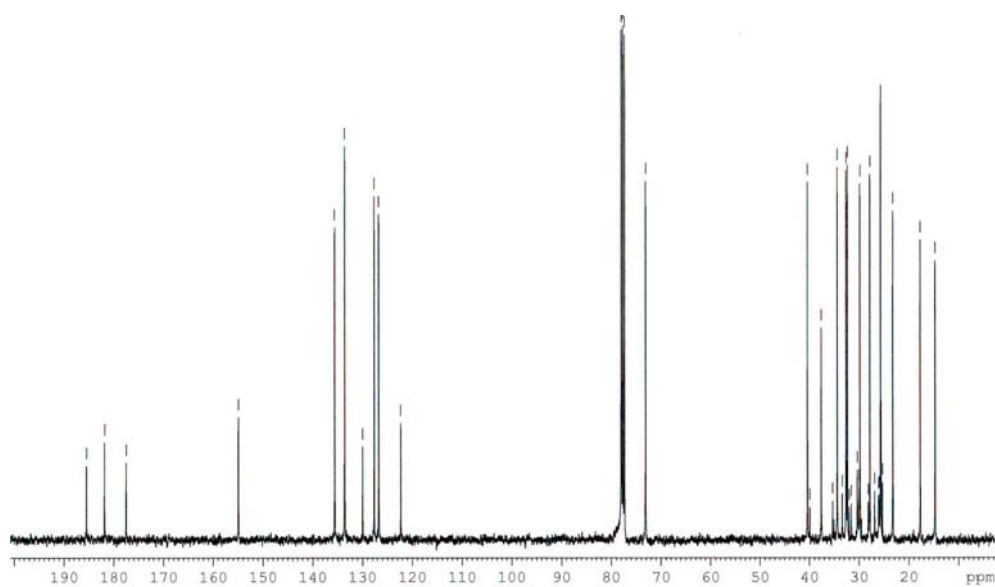
Appendix Figure 31 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyloctanoate (**149**)



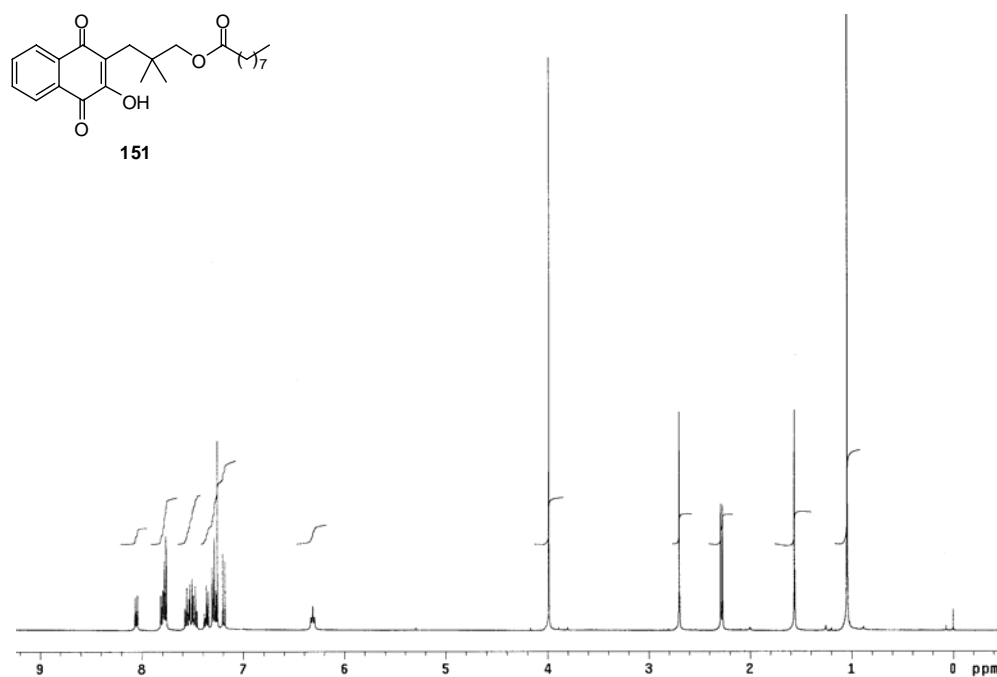
Appendix Figure 32 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyloctanoate (**149**)



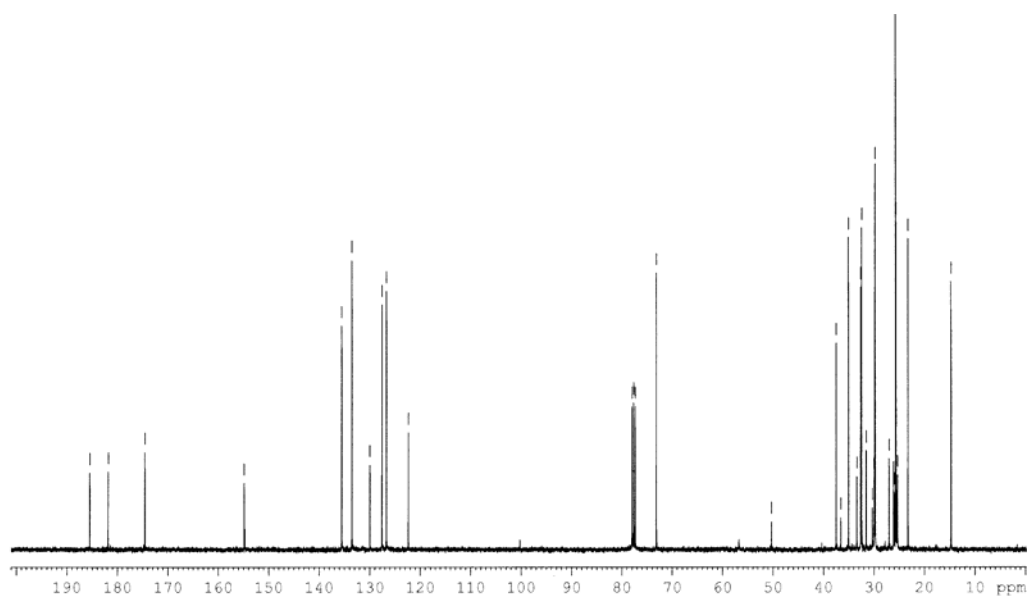
Appendix Figure 33 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methyloctanoate (**150**)



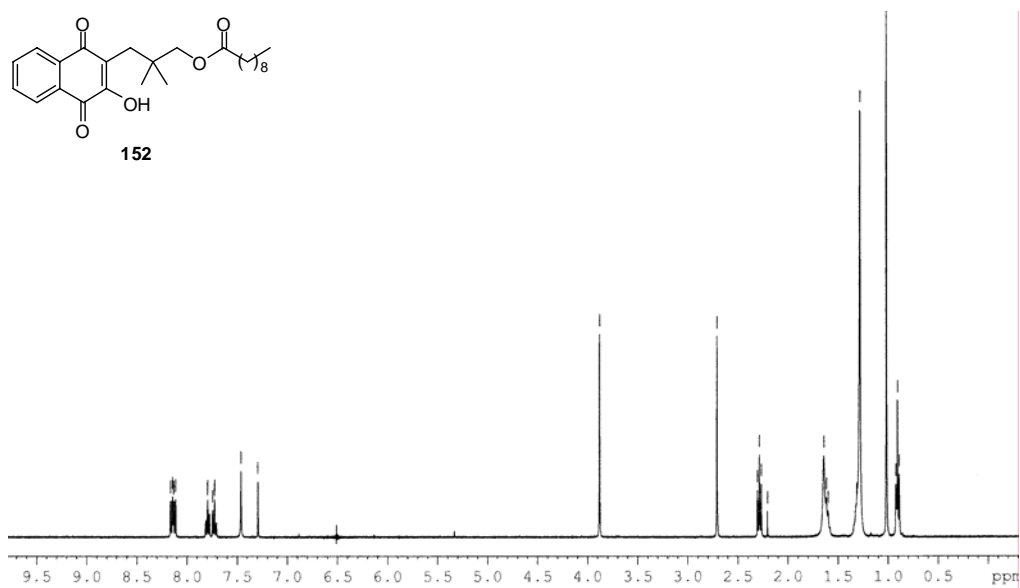
Appendix Figure 34 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl 2-methyl octanoate (**150**)



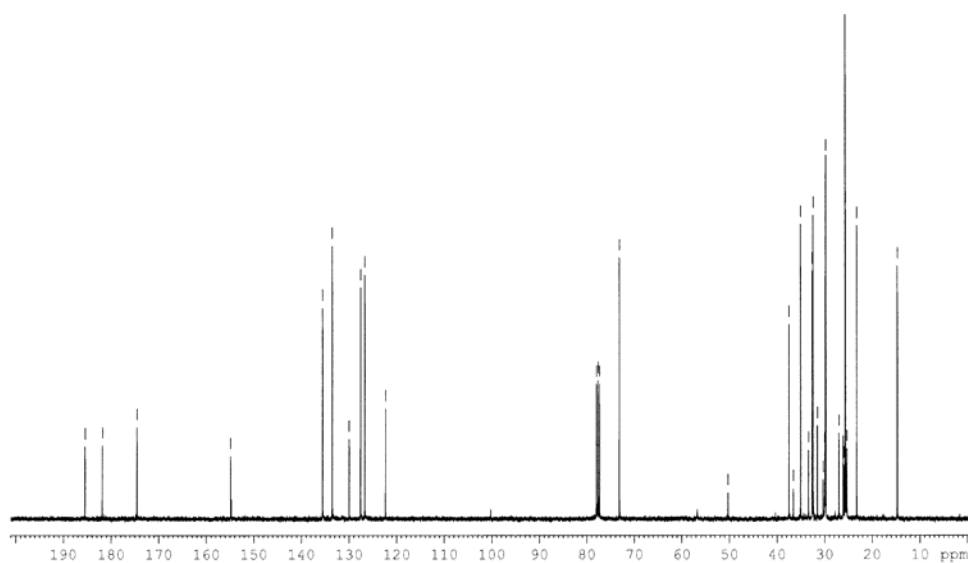
Appendix Figure 35 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl nonanoate (**151**)



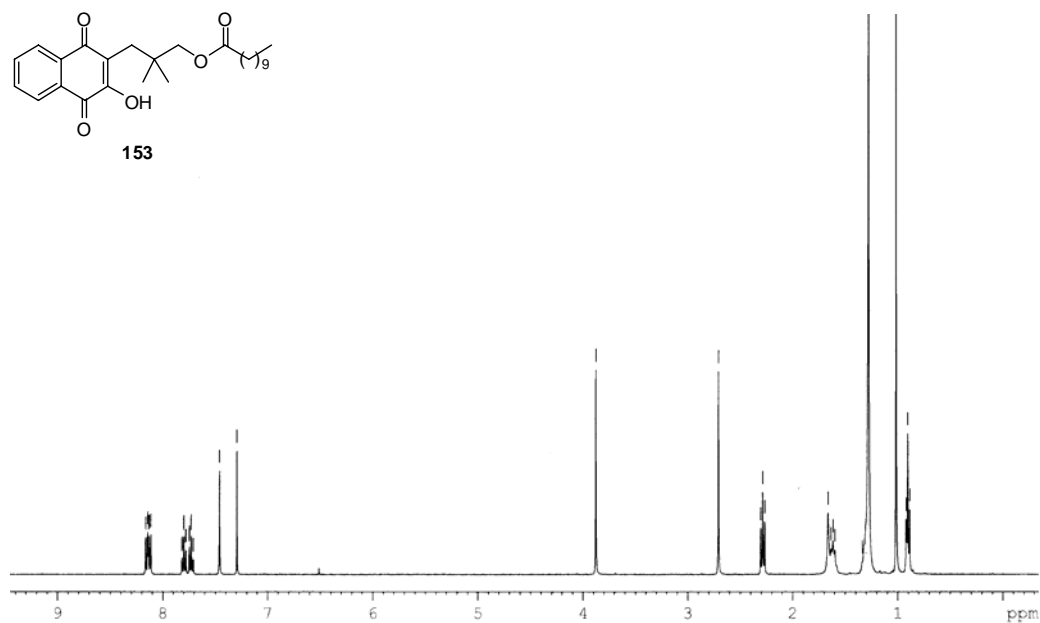
Appendix Figure 36 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl nonanoate (**151**)



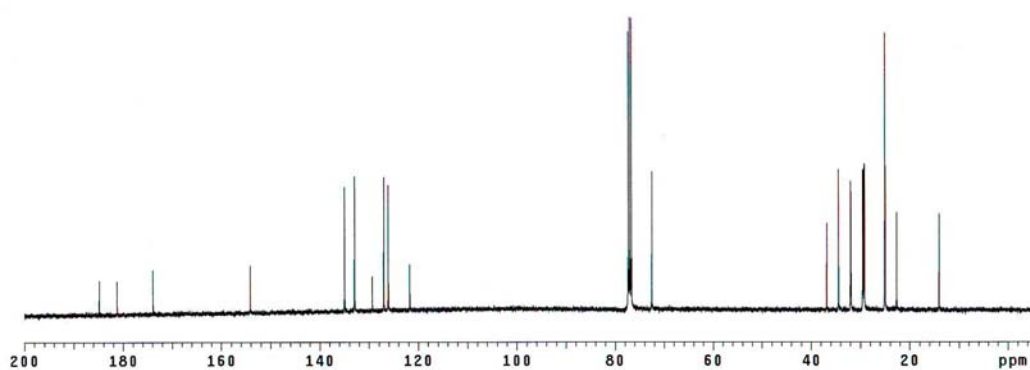
Appendix Figure 37 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl decanoate (**152**)



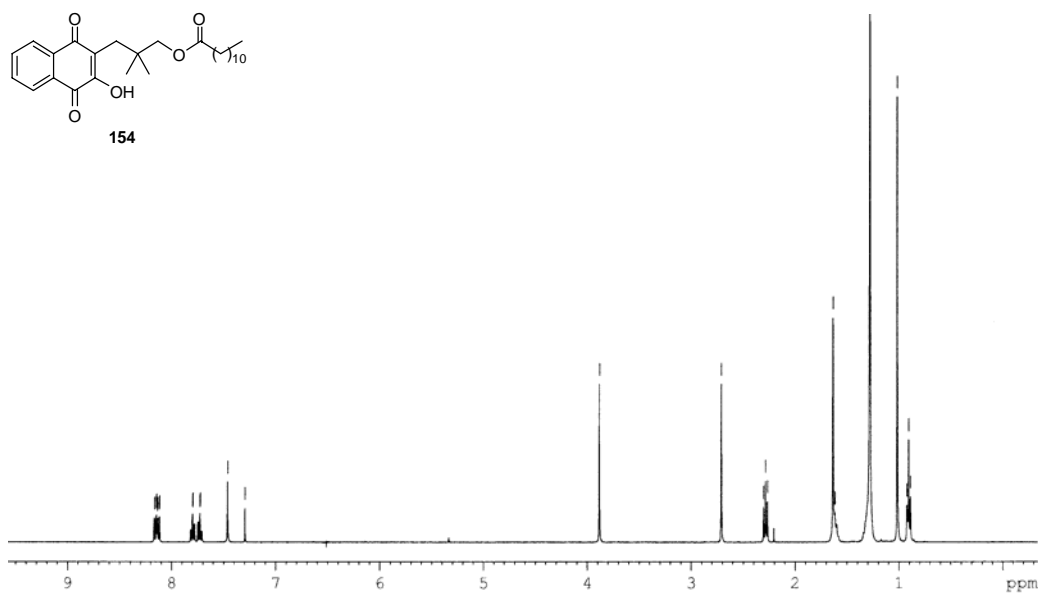
Appendix Figure 38 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl decanoate (**152**)



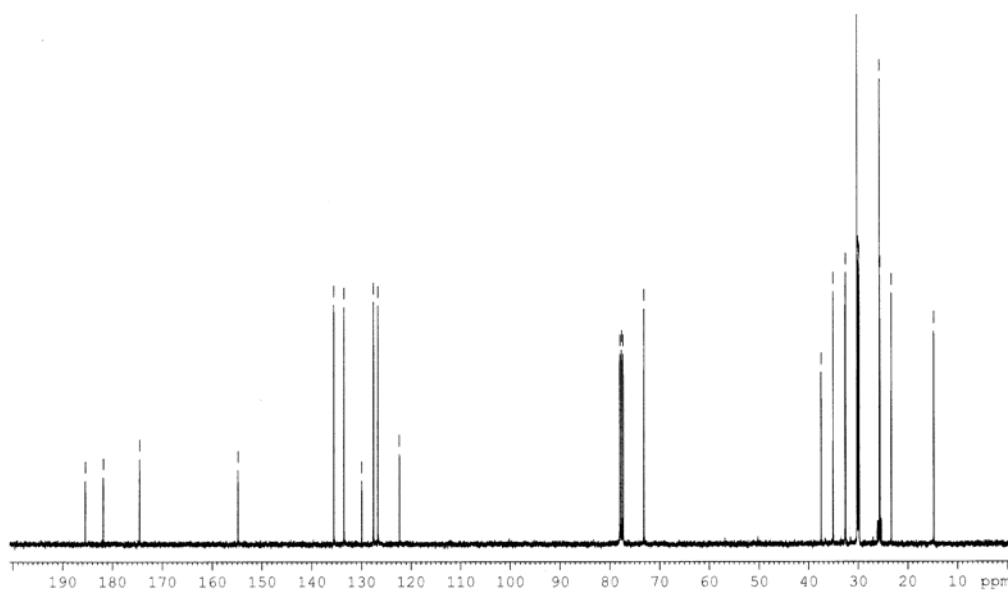
Appendix Figure 39 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl undecanoate (**153**)



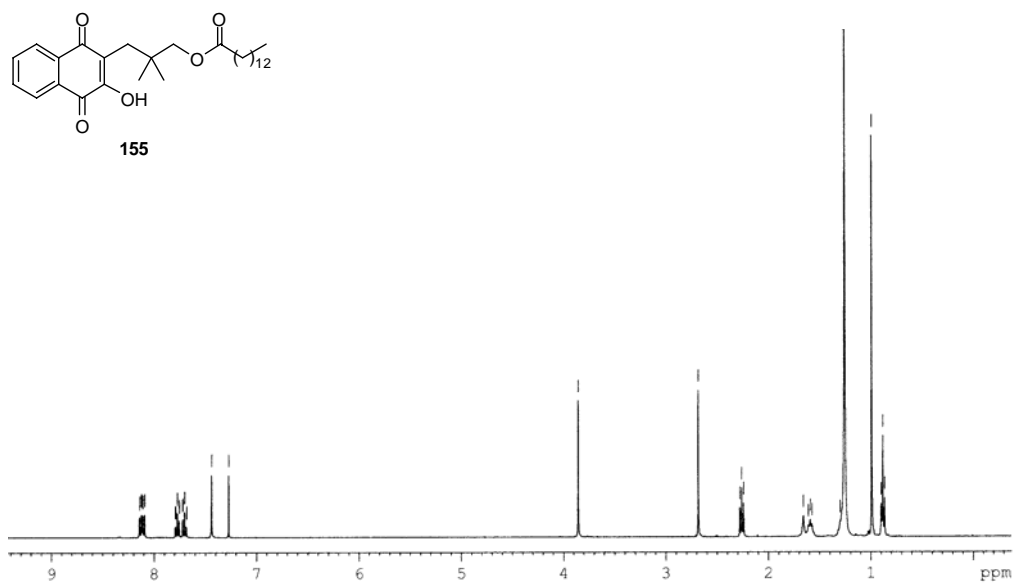
Appendix Figure 40 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl undecanoate (**153**)



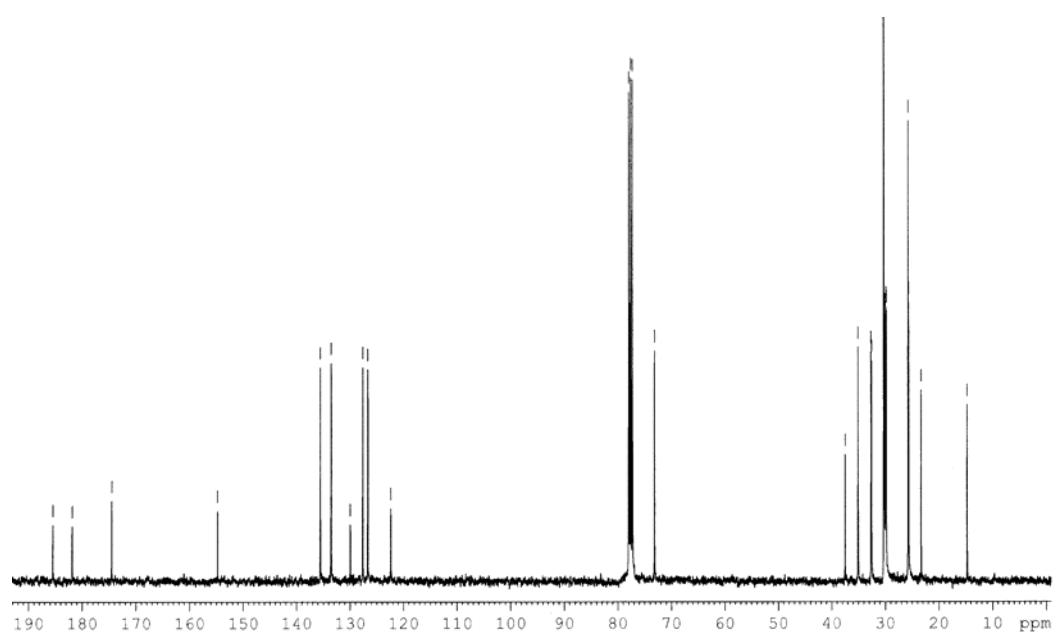
Appendix Figure 41 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl dodecanoate (**154**)



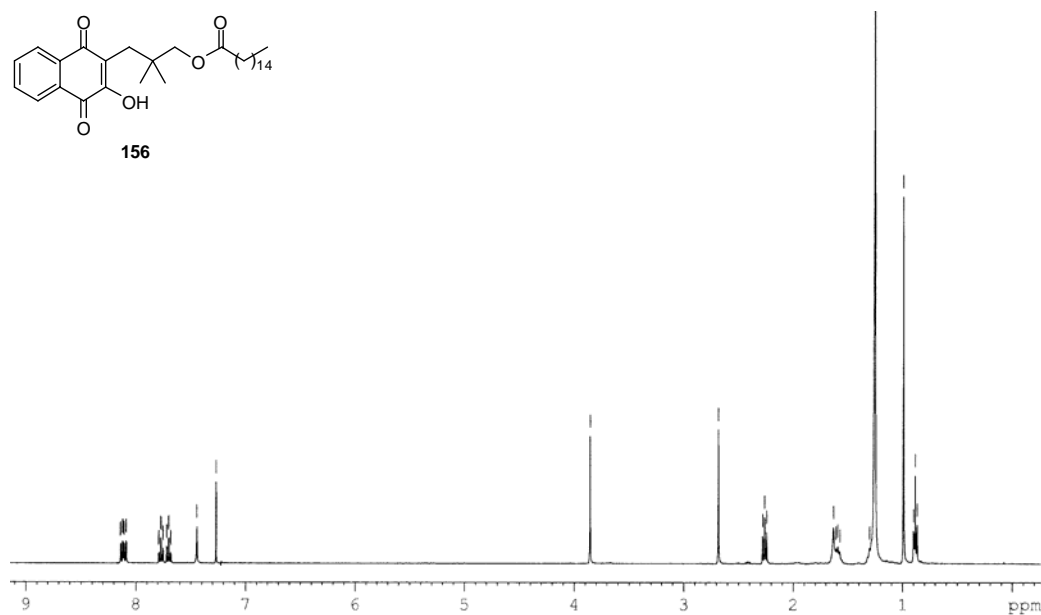
Appendix Figure 42 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl dodecanoate (**154**)



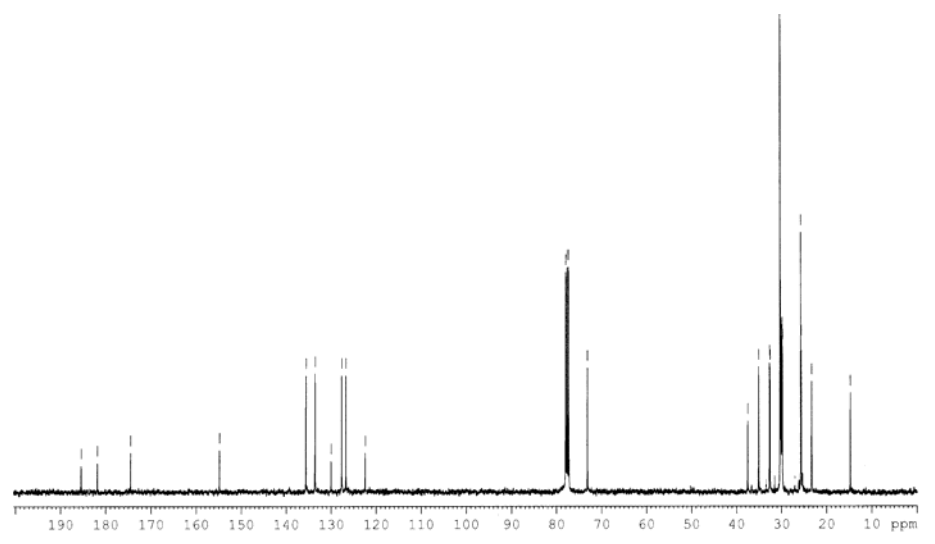
Appendix Figure 43 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl tetradecanoate (155)



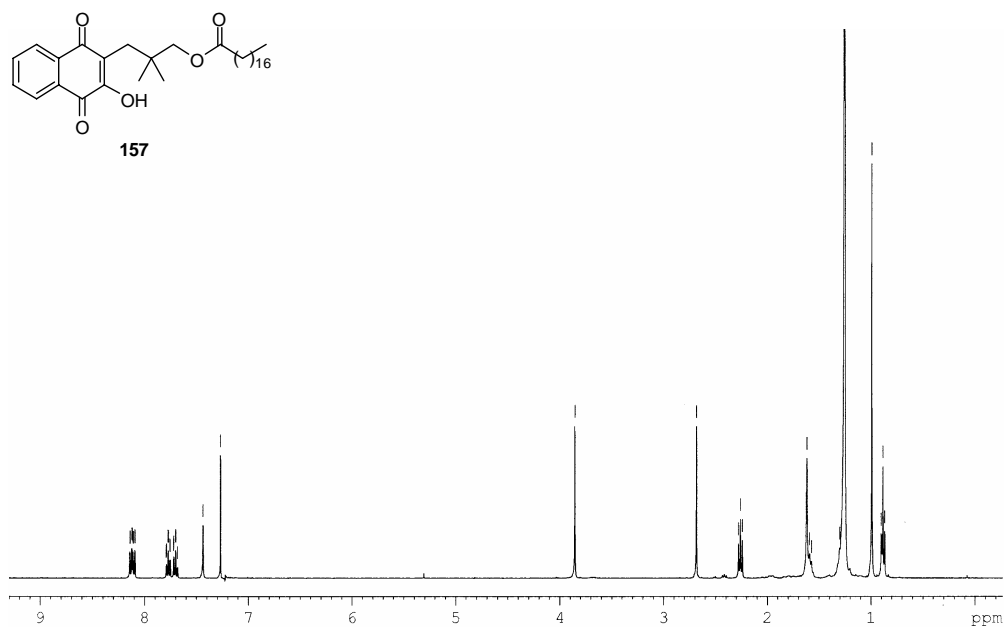
Appendix Figure 44 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl tetradecanoate (155)



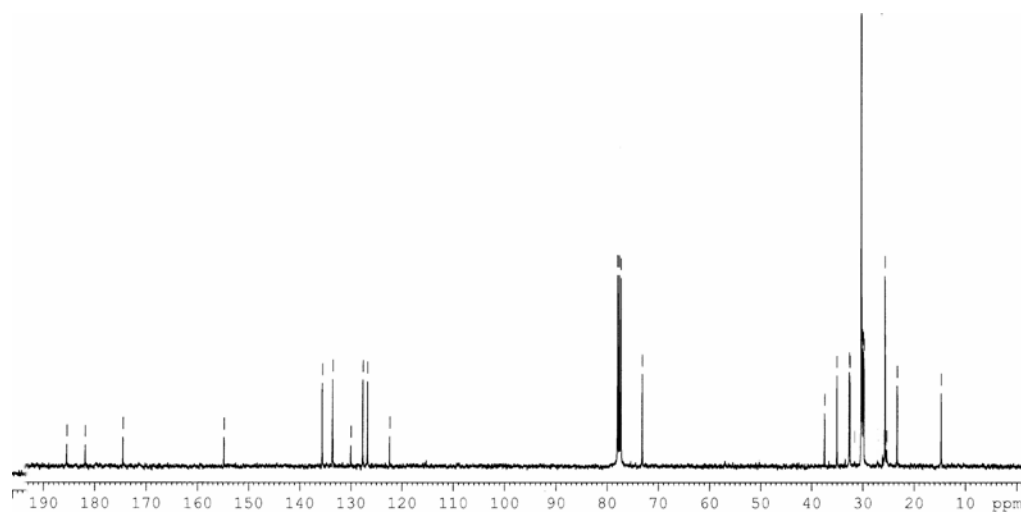
Appendix Figure 45 400 MHz ¹H NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl palmitate (**156**)



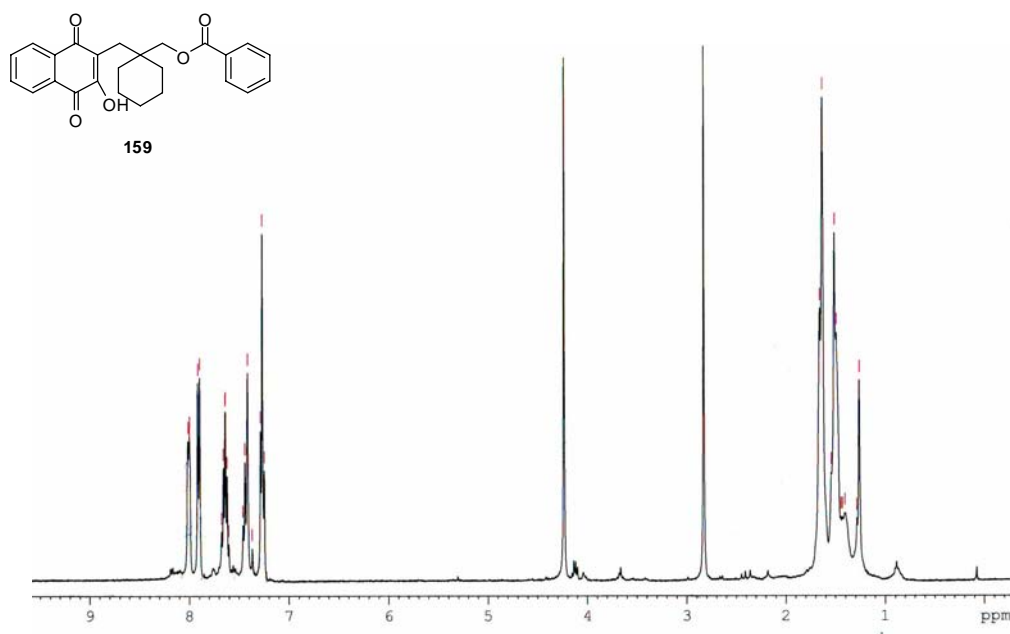
Appendix Figure 46 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl palmitate (**156**)



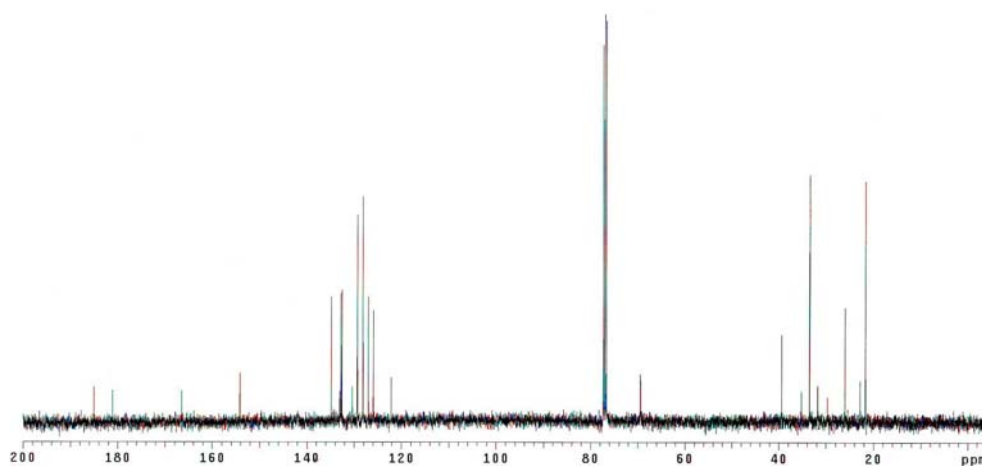
Appendix Figure 47 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl stearate (**157**)



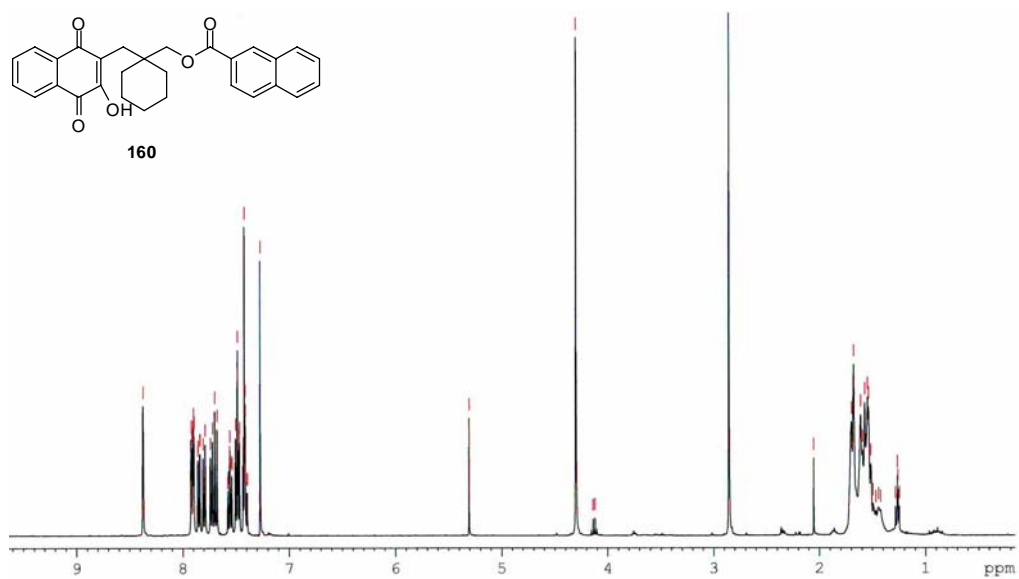
Appendix Figure 48 400 MHz ¹³C NMR spectrum of 3-(1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)-2,2-dimethylpropyl stearate (**157**)



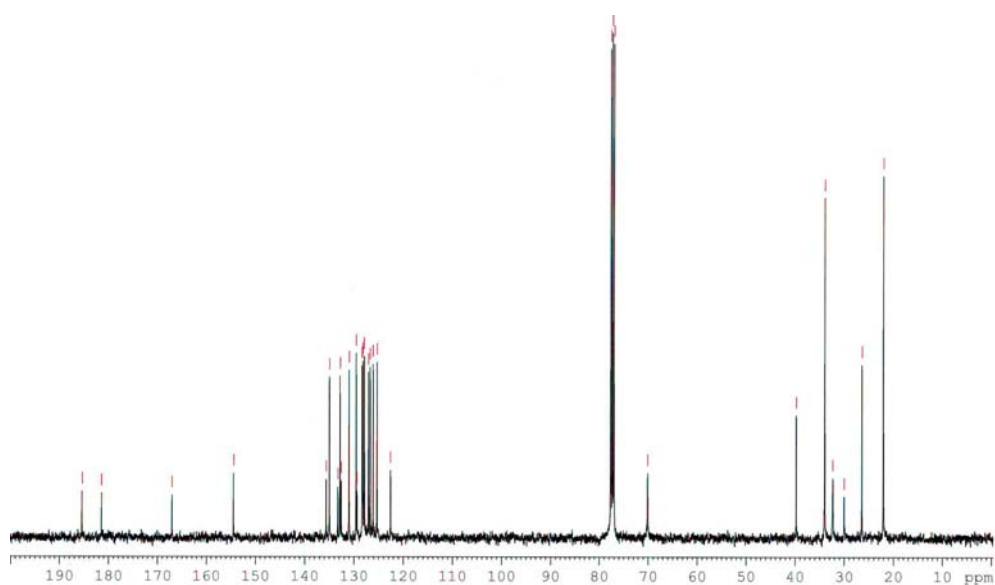
Appendix Figure 49 400 MHz ^1H NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl benzoate (159)



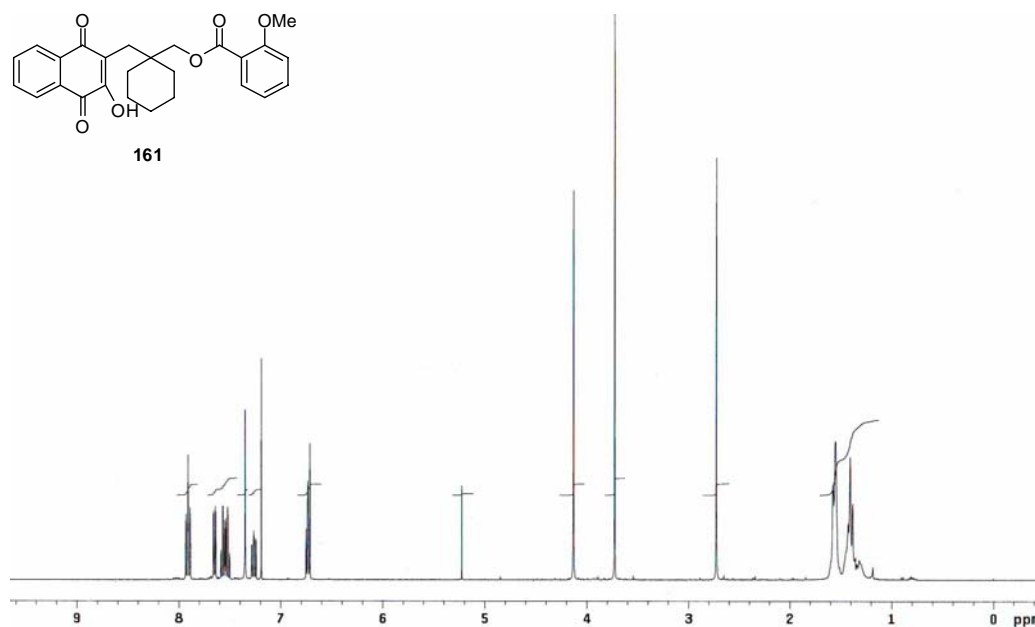
Appendix Figure 50 400 MHz ^{13}C NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl benzoate (159)



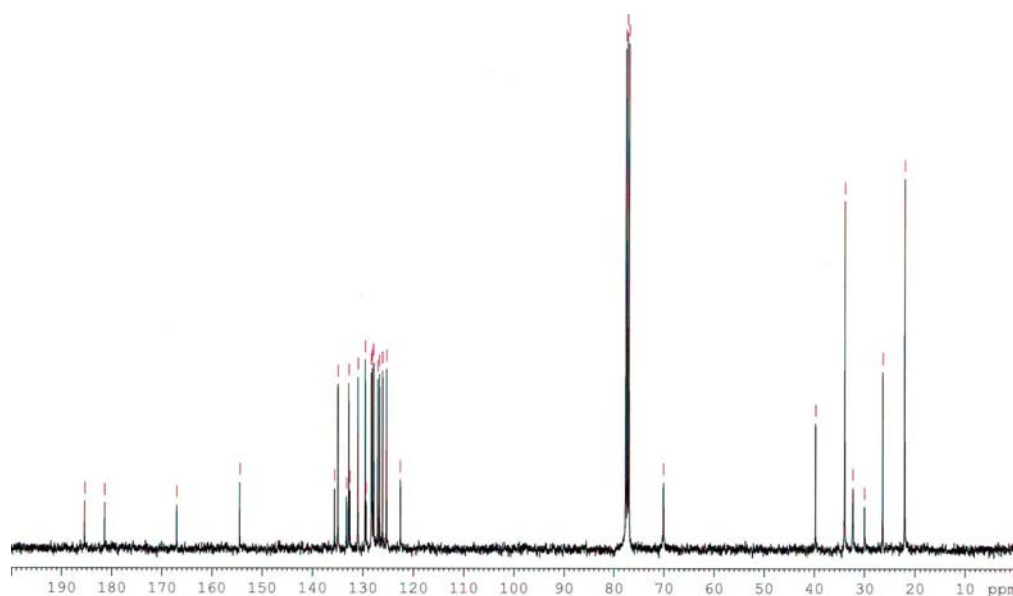
Appendix Figure 51 400 MHz ^1H NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 2-naphthoate (**160**)



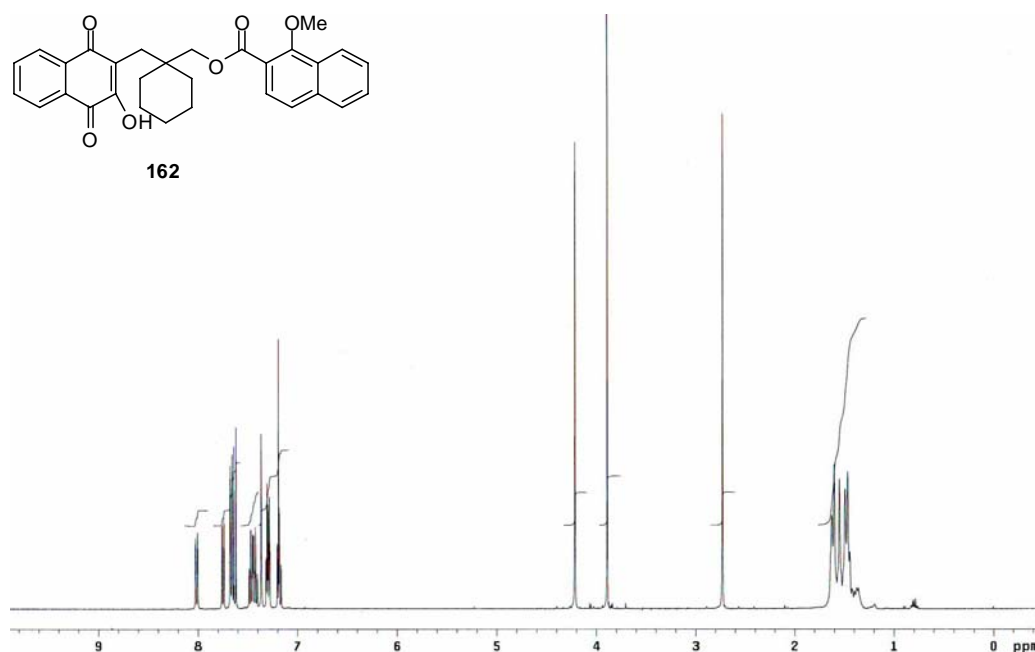
Appendix Figure 52 400 MHz ^{13}C NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 2-naphthoate (**160**)



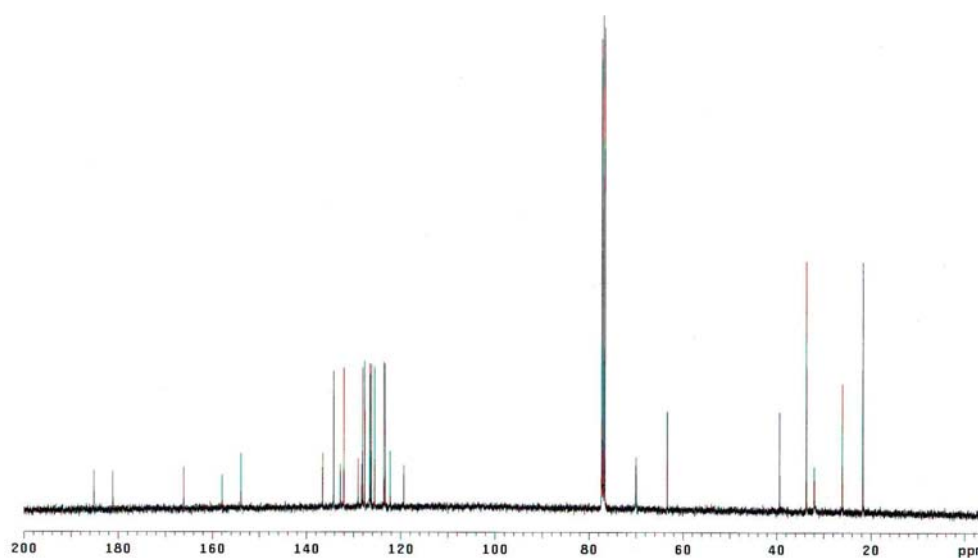
Appendix Figure 53 400 MHz ^1H NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 2-methoxybenzoate (**161**)



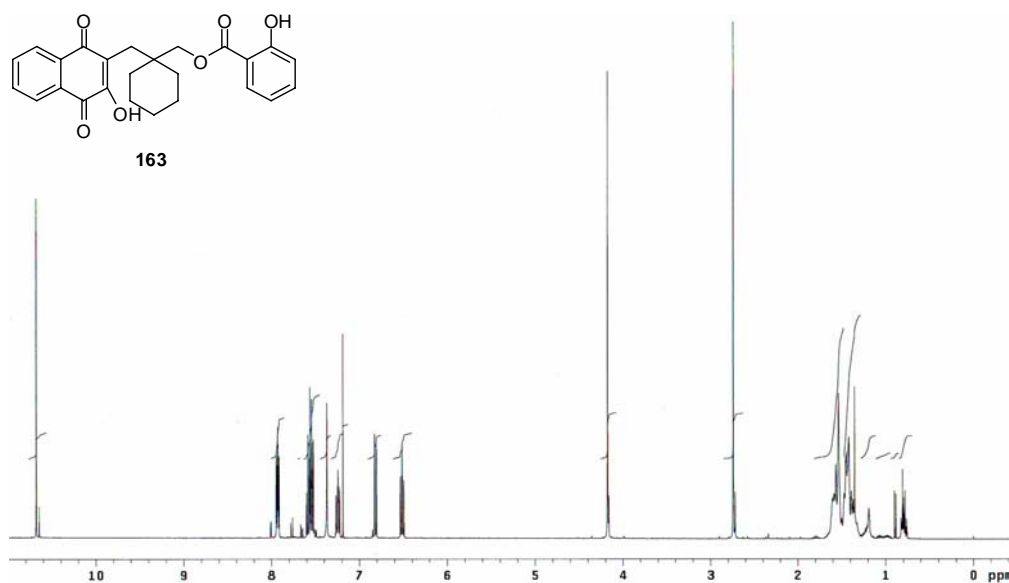
Appendix Figure 54 400 MHz ^{13}C NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 2-methoxybenzoate (**161**)



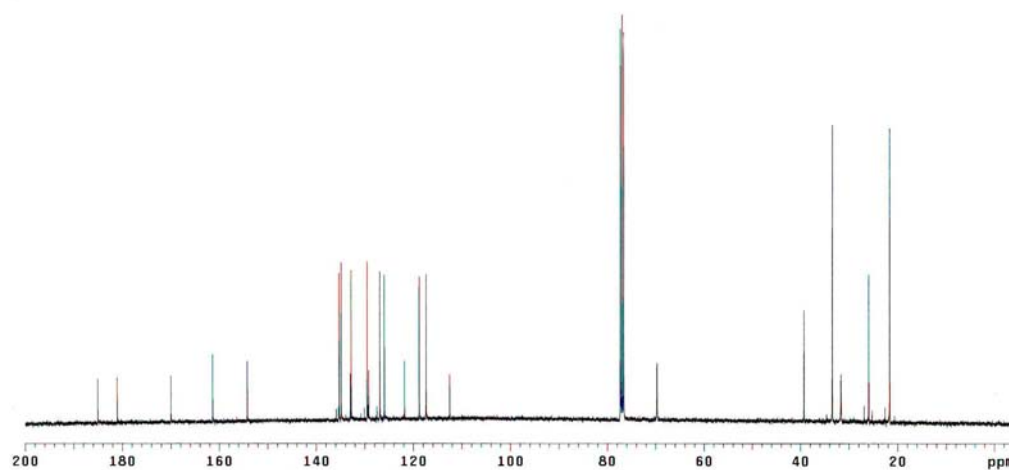
Appendix Figure 55 400 MHz ^1H NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 1-methoxynaphthalene-2-carboxylate (**162**)



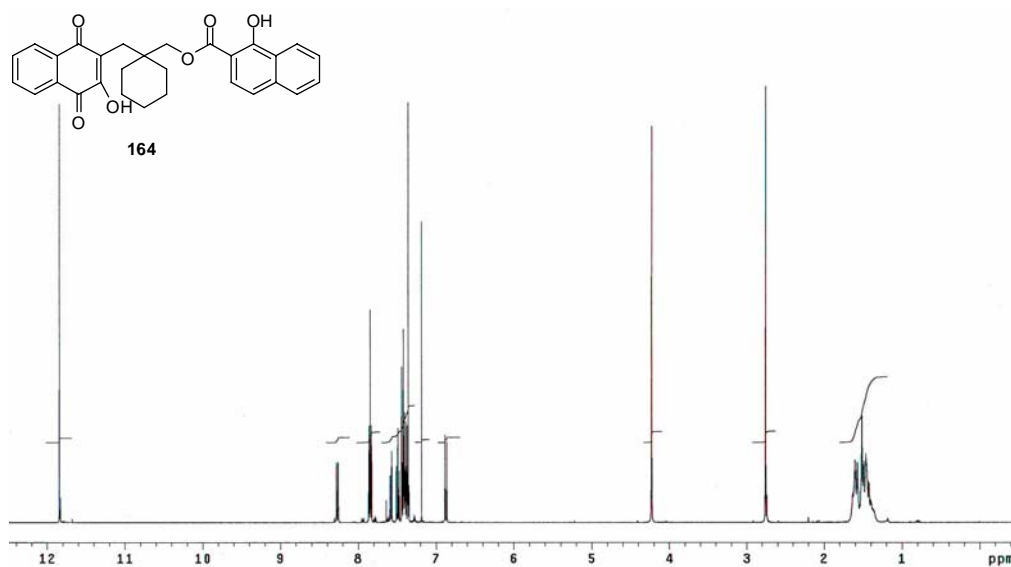
Appendix Figure 56 400 MHz ^{13}C NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 1-methoxynaphthalene-2-carboxylate (**162**)



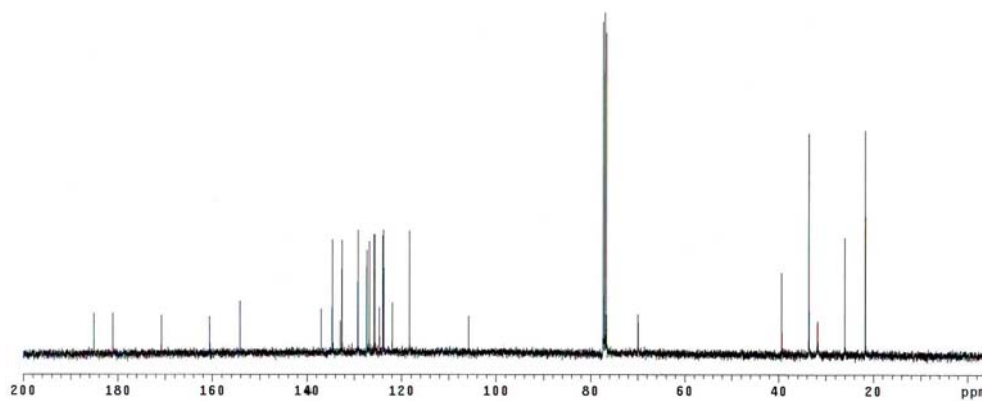
Appendix Figure 57 400 MHz ¹H NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 2-hydroxybenzoate (**163**)



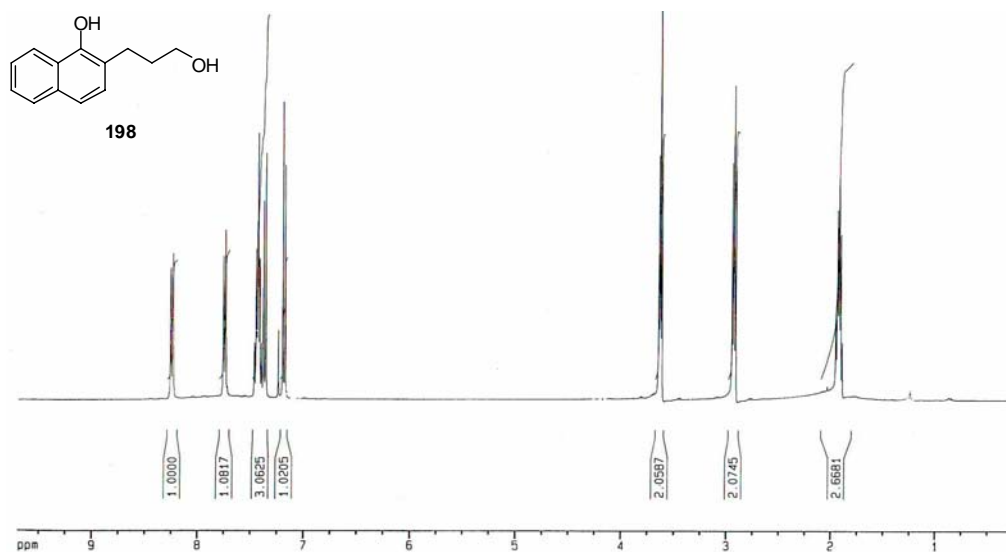
Appendix Figure 58 400 MHz ¹³C NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 2-hydroxybenzoate (**163**)



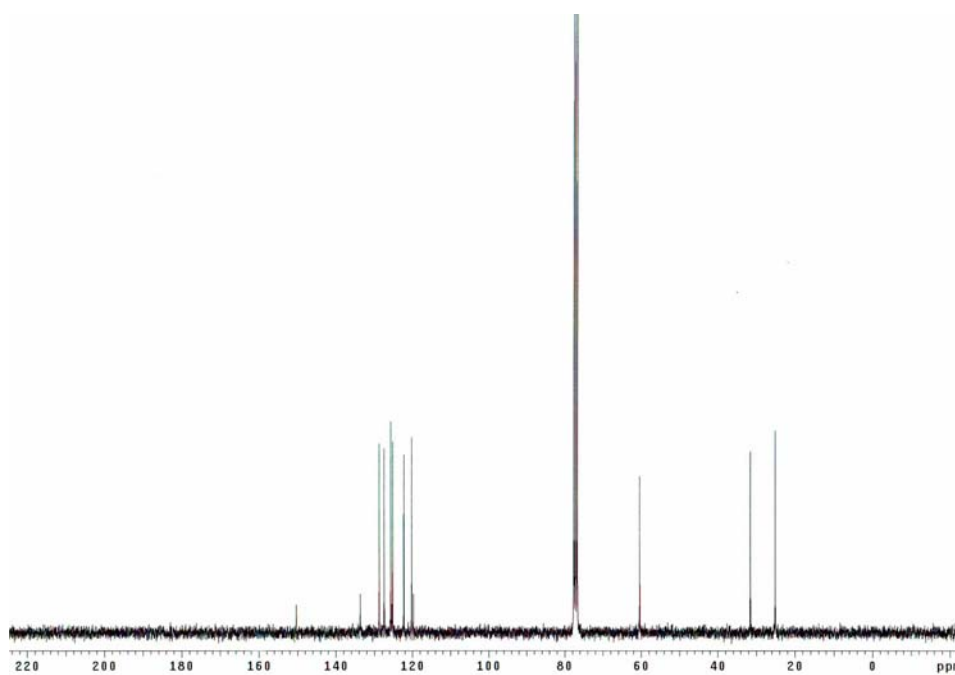
Appendix Figure 59 400 MHz ^1H NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 1-hydroxynaphthalene-2-carboxylate (**164**)



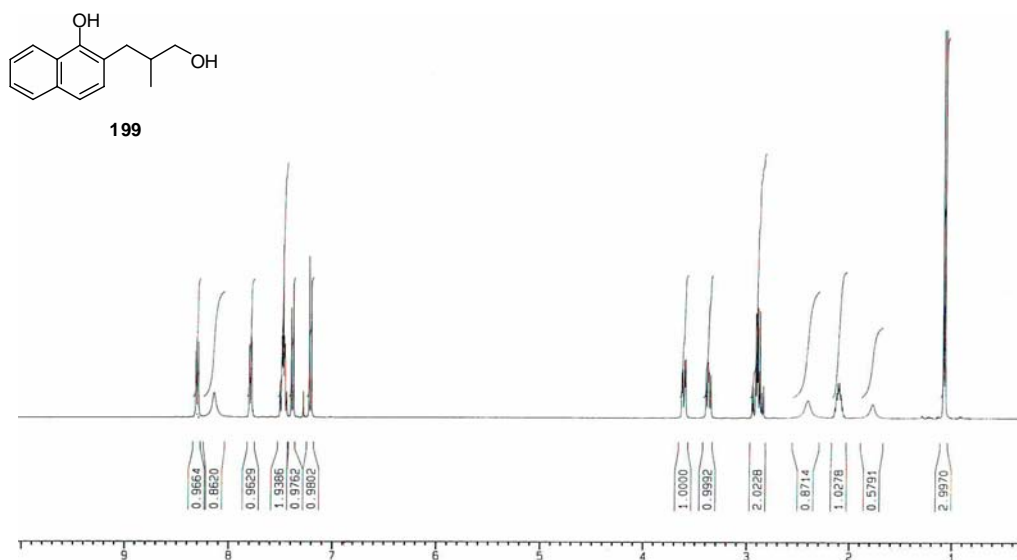
Appendix Figure 60 400 MHz ^{13}C NMR spectrum of (1-((1,4-dihydro-2-hydroxy-1,4-dioxonaphthalen-3-yl)methyl)cyclohexyl)methyl 1-hydroxynaphthalene-2-carboxylate (**164**)



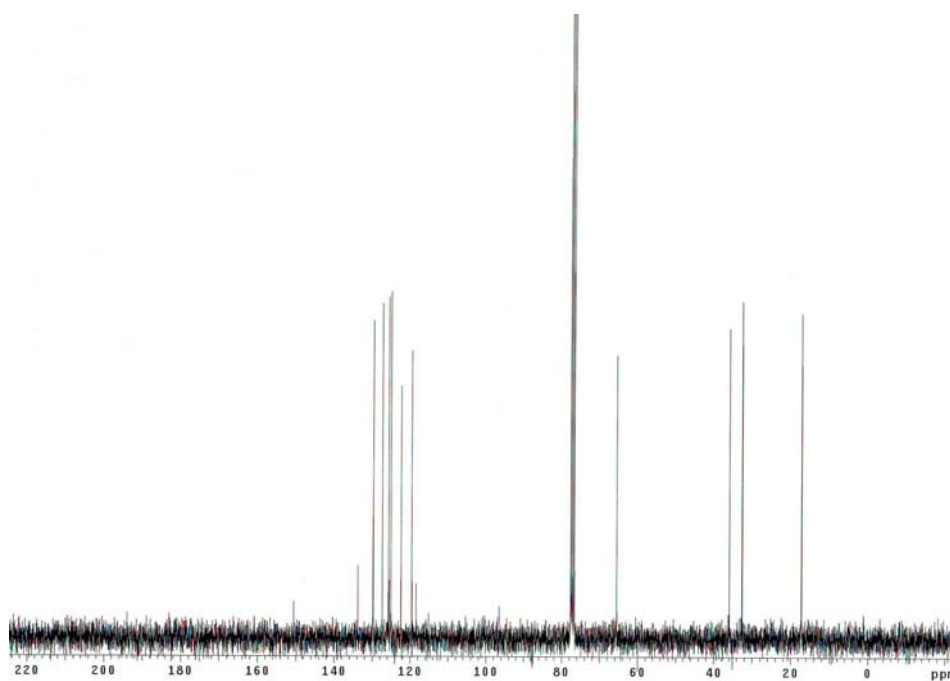
Appendix Figure 61 400 MHz ^1H NMR spectrum of 2-(3-hydroxy-propyl)-1-naphthalen-1-ol (**198**)



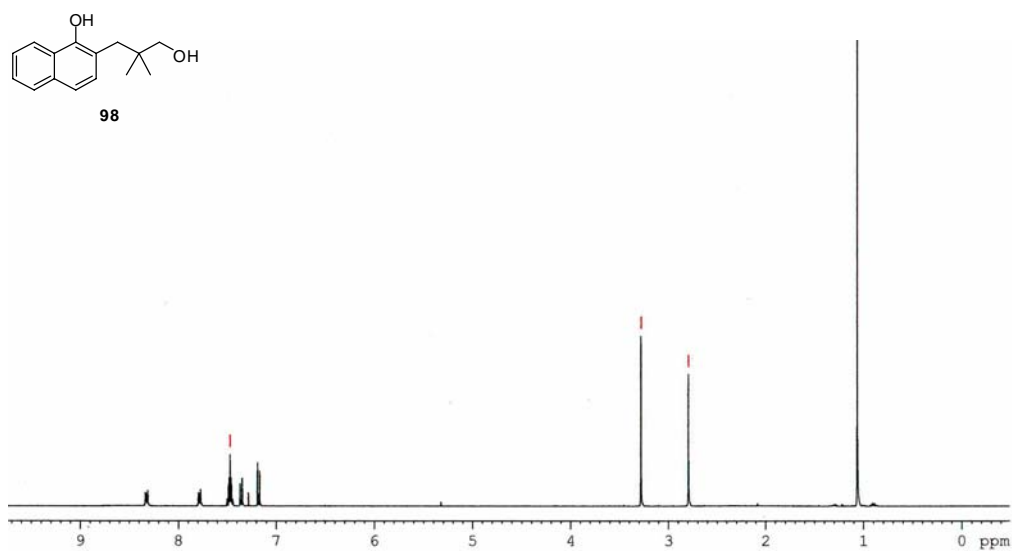
Appendix Figure 62 400 MHz ^{13}C NMR spectrum of 2-(3-hydroxy-propyl)-1-naphthalen-1-ol (**198**)



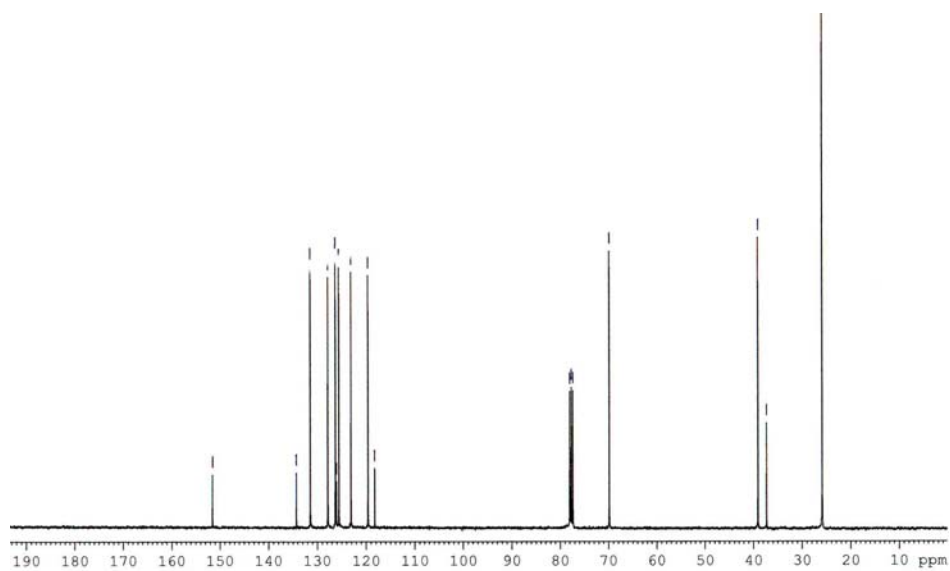
Appendix Figure 63 400 MHz ^1H NMR spectrum of 2-(3-hydroxy-2-methylpropyl)-naphthalen-1-ol (**199**)



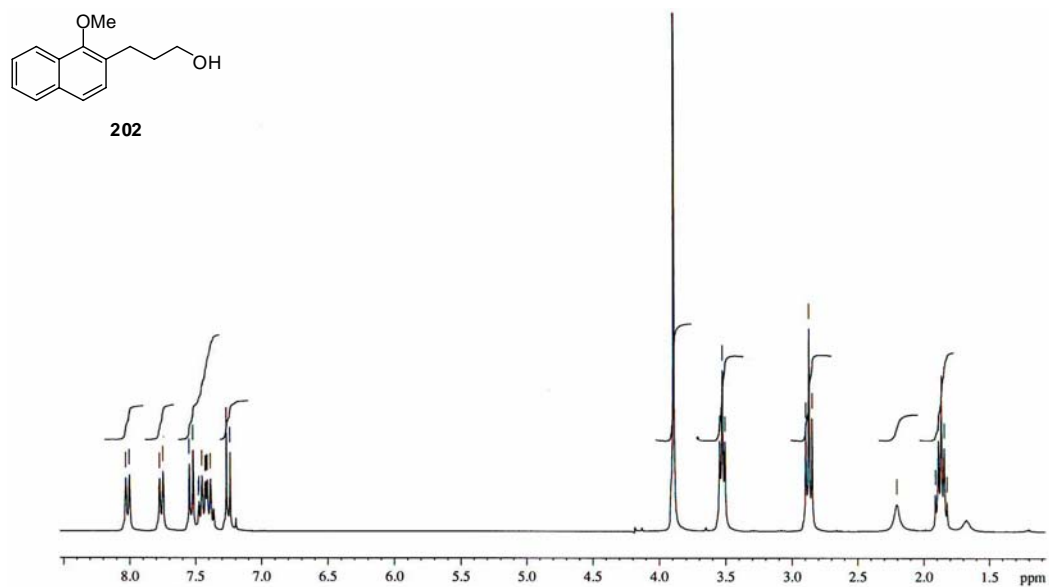
Appendix Figure 64 400 MHz ^{13}C NMR spectrum of 2-(3-hydroxy-2-methylpropyl)-naphthalen-1-ol (**199**)



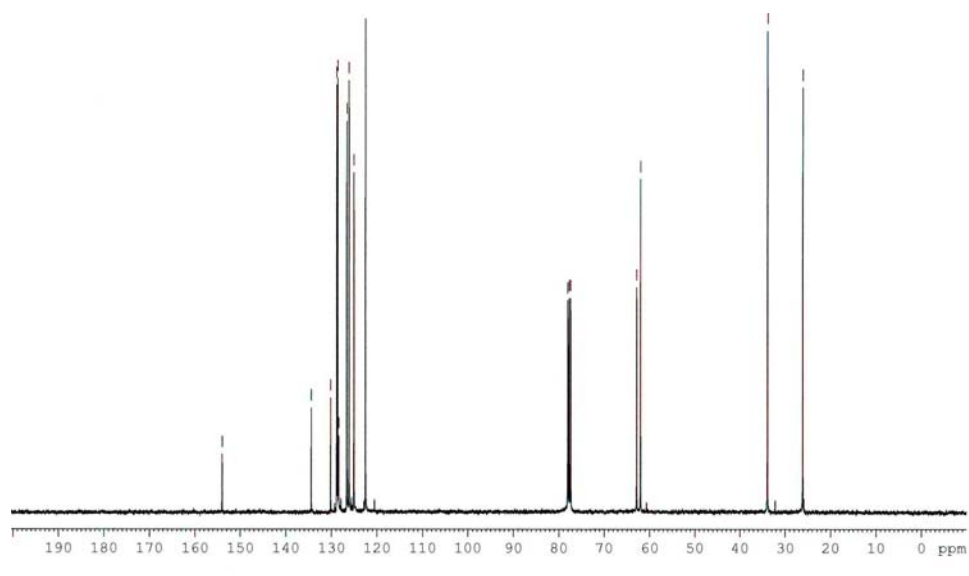
Appendix Figure 65 400 MHz ¹H NMR spectrum of 2-(3-hydroxy-2,2-dimethylpropyl)-1-hydroxy naphthalene (**98**)



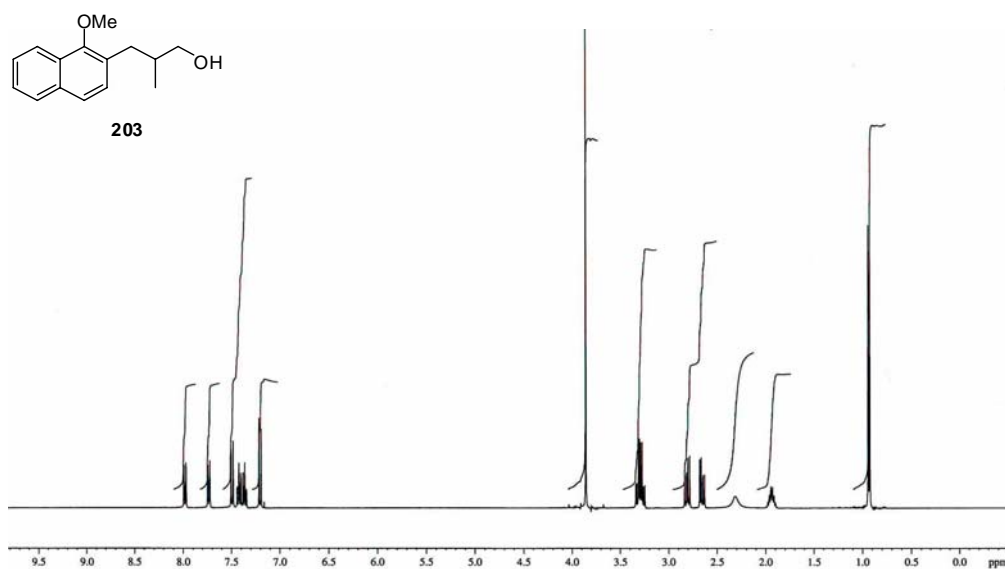
Appendix Figure 66 400 MHz ¹³C NMR spectrum of 2-(3-hydroxy-2,2-dimethylpropyl)-1-hydroxy naphthalene (**98**)



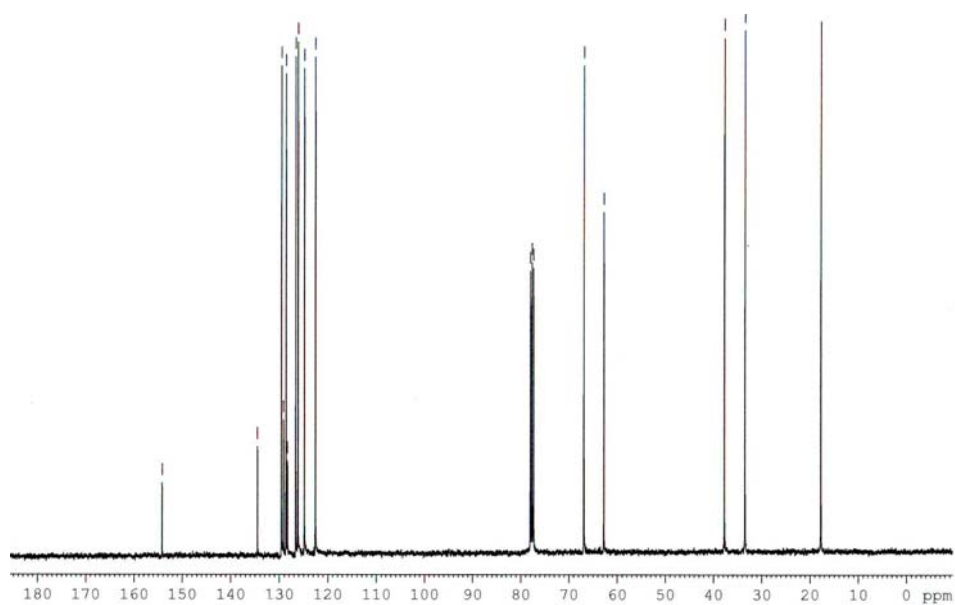
Appendix Figure 67 400 MHz ¹H NMR spectrum of 3-(1-methoxy-naphthalen-2-yl)-propan-1-ol (**202**)



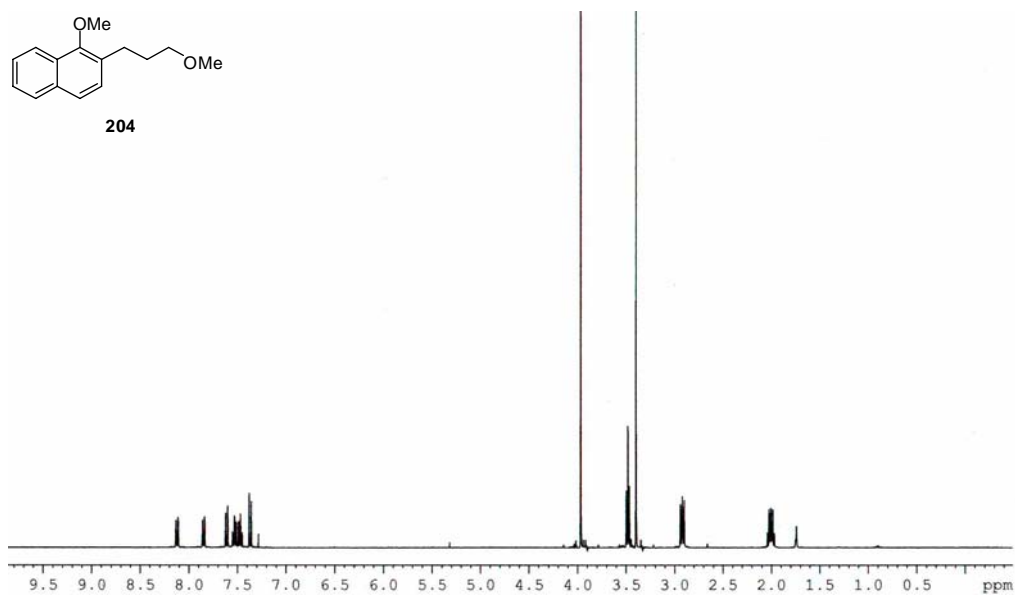
Appendix Figure 68 400 MHz ¹³C NMR spectrum of 3-(1-methoxy-naphthalen-2-yl)-propan-1-ol (**202**)



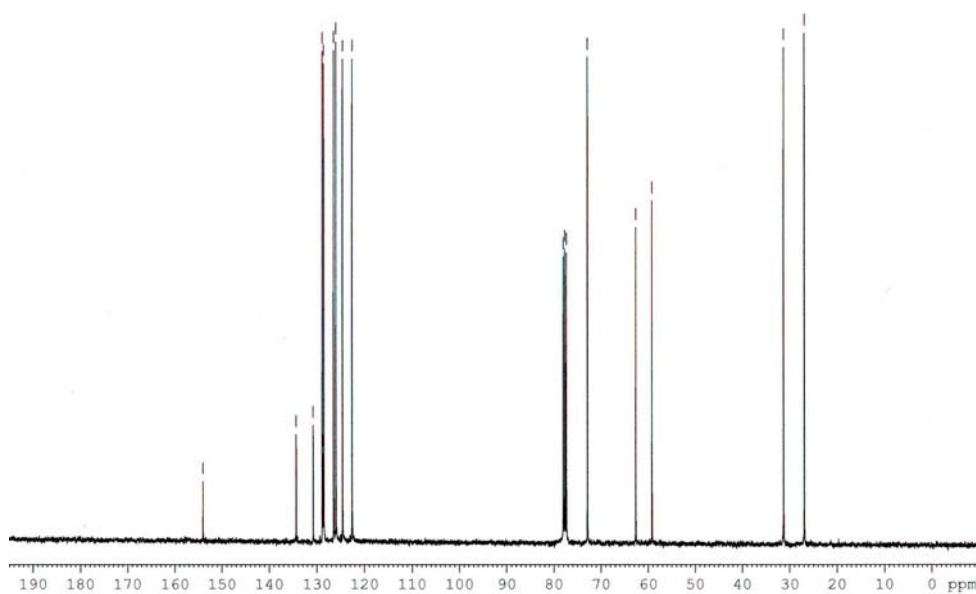
Appendix Figure 69 400 MHz ¹H NMR spectrum of 3-(1-methoxy-naphthalen-2-yl)-2-methyl-propan-1-ol (**203**)



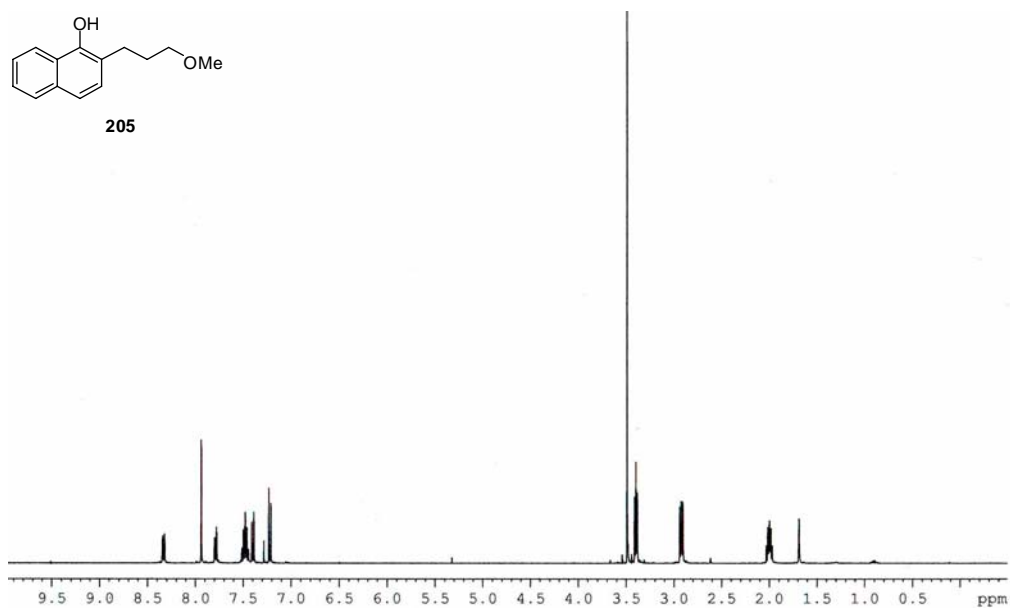
Appendix Figure 70 400 MHz ¹³C NMR spectrum of 3-(1-methoxy-naphthalen-2-yl)-2-methyl-propan-1-ol (**203**)



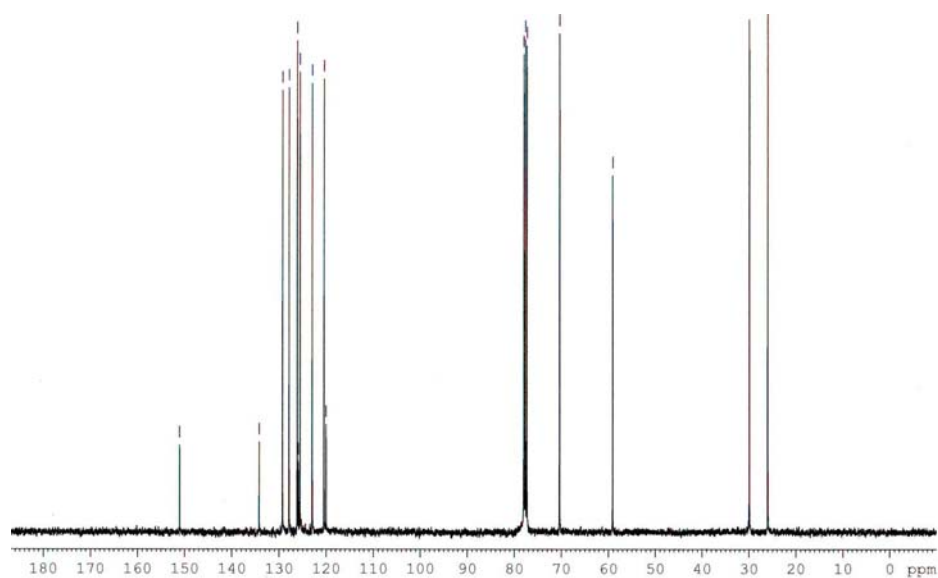
Appendix Figure 71 400 MHz ¹H NMR spectrum of 1-methoxy-2-(3-methoxypropyl)naphthalene (**204**)



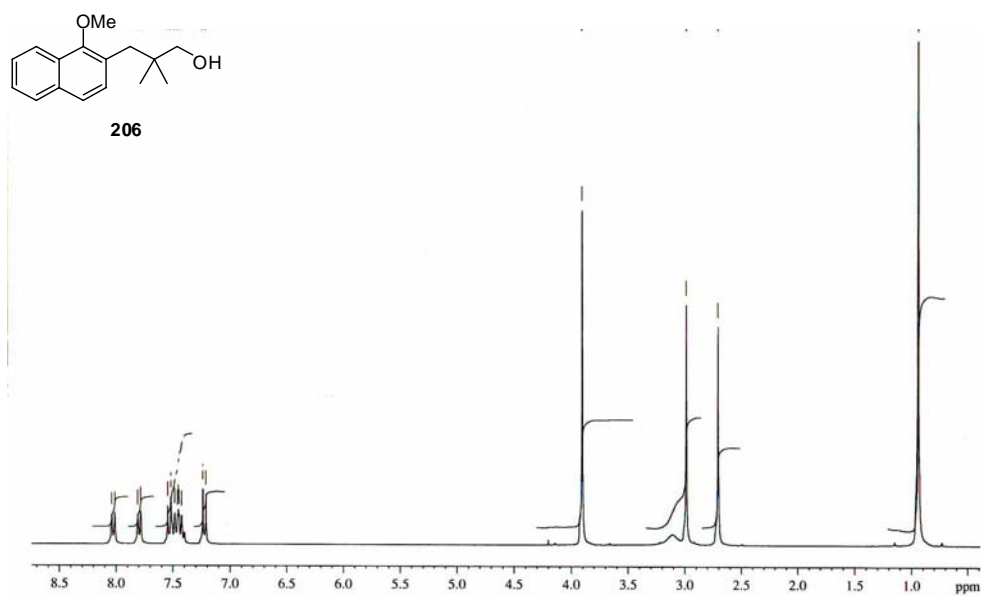
Appendix Figure 72 400 MHz ¹³C NMR spectrum of 1-methoxy-2-(3-methoxypropyl)naphthalene (**204**)



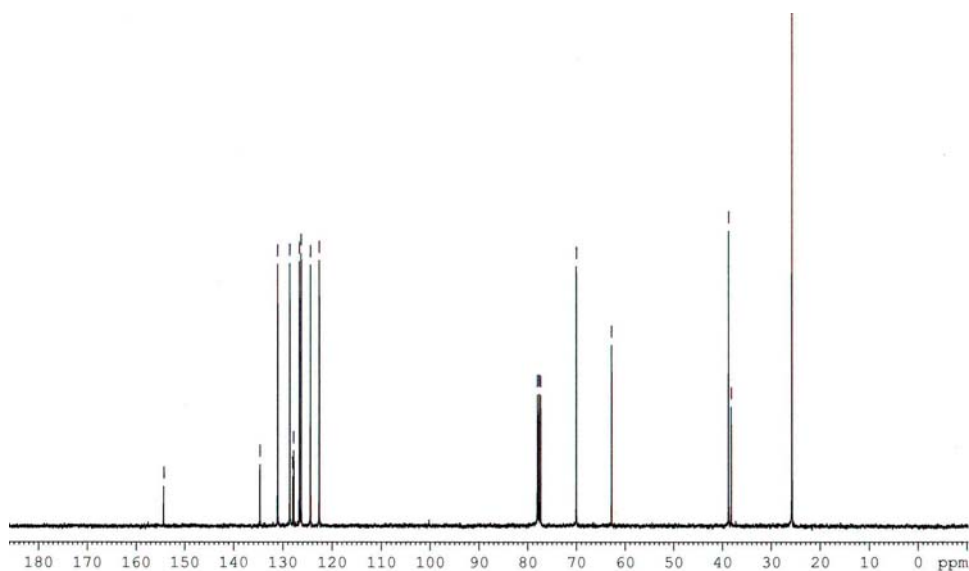
Appendix Figure 73 400 MHz ^1H NMR spectrum of 2-(3-methoxy-propyl)-naphthalen-1-ol (**205**)



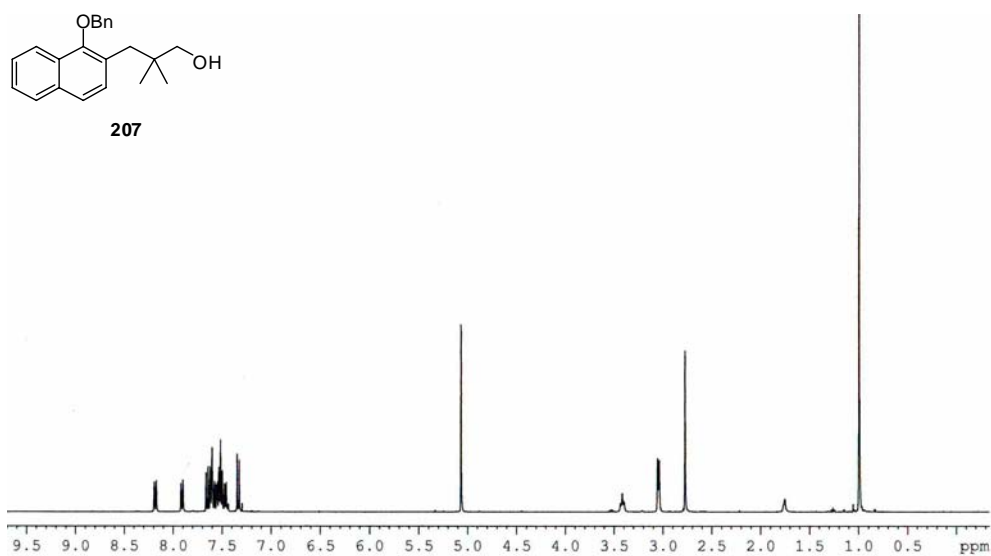
Appendix Figure 74 400 MHz ^{13}C NMR spectrum of 2-(3-methoxy-propyl)-naphthalen-1-ol (**205**)



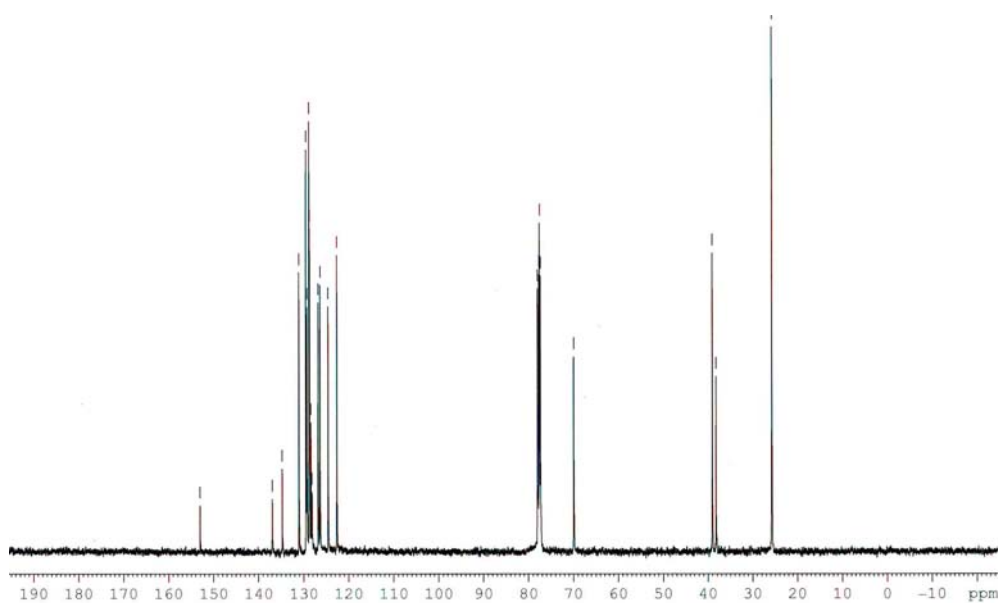
Appendix Figure 75 400 MHz ¹H NMR spectrum of 3-(1-methoxy-naphthalen-2-yl)-2,2-dimethyl-propan-1-ol (**206**)



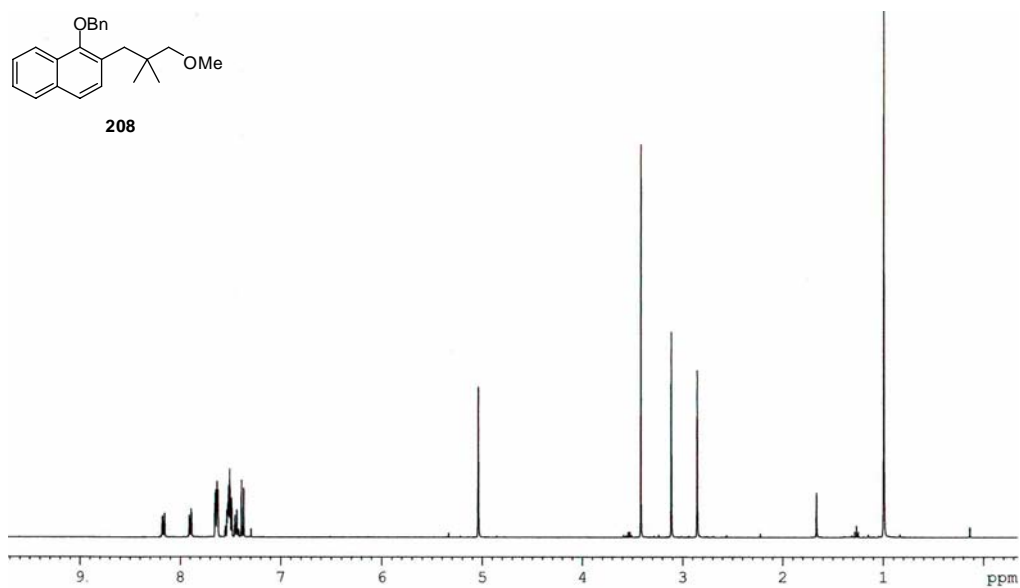
Appendix Figure 76 400 MHz ¹³C NMR spectrum of 3-(1-methoxy-naphthalen-2-yl)-2,2-dimethyl-propan-1-ol (**206**)



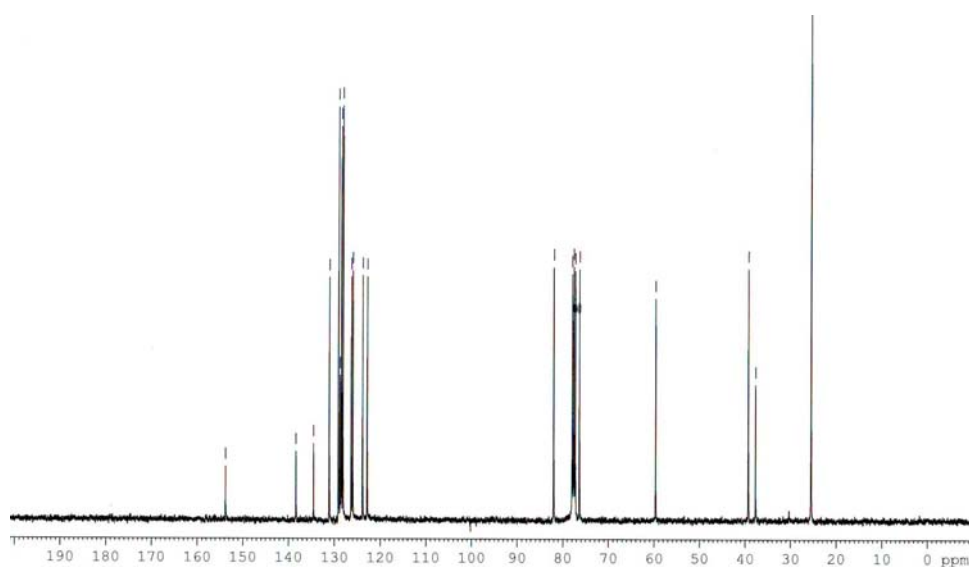
Appendix Figure 77 400 MHz ¹H NMR spectrum of 3-(1-benzyloxy-naphthalen-2-yl)-2,2-dimethyl-propan-1-ol (**207**)



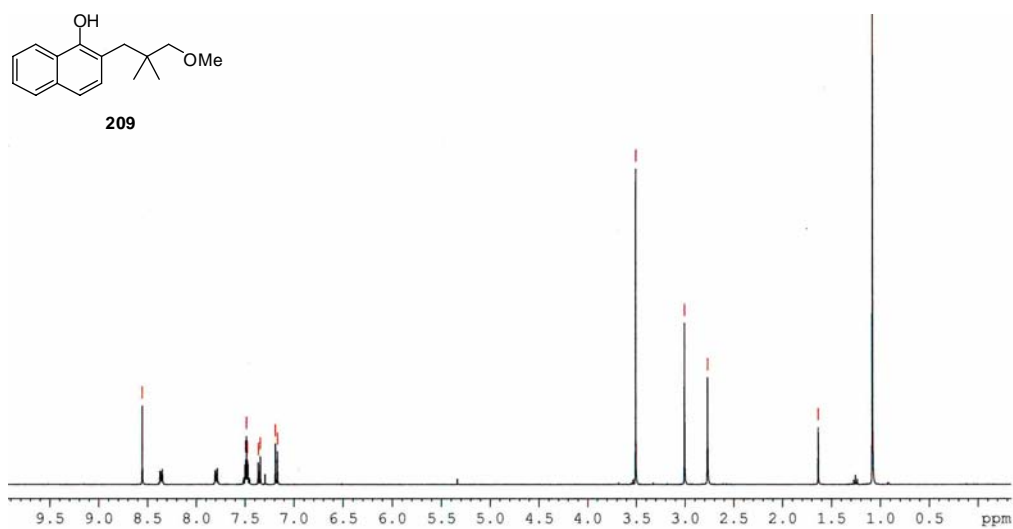
Appendix Figure 78 400 MHz ¹³C NMR spectrum of 3-(1-benzyloxy-naphthalen-2-yl)-2,2-dimethyl-propan-1-ol (**207**)



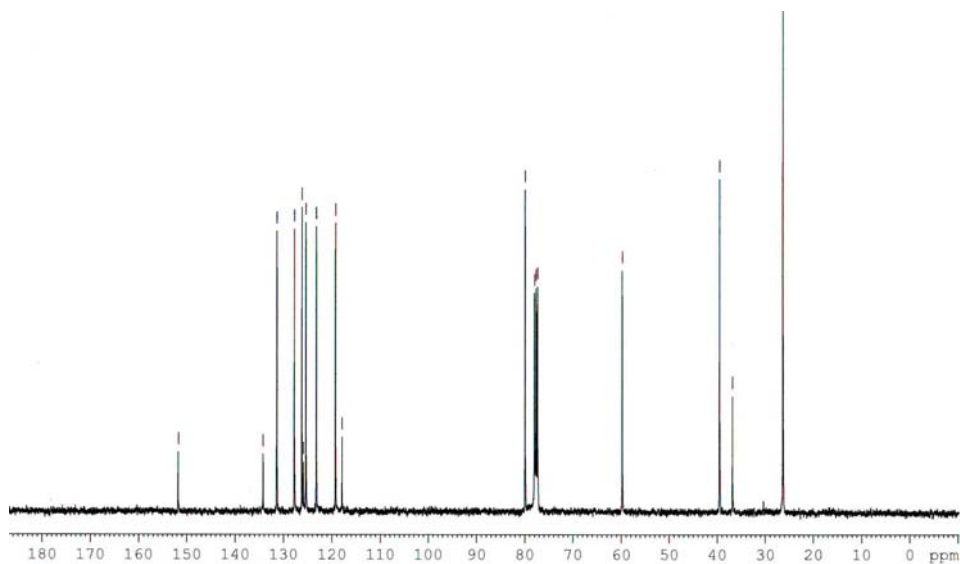
Appendix Figure 79 400 MHz ¹H NMR spectrum of 1-benzyloxy-2-(3-methoxy-2,2-dimethyl-propyl)-naphthalene (**208**)



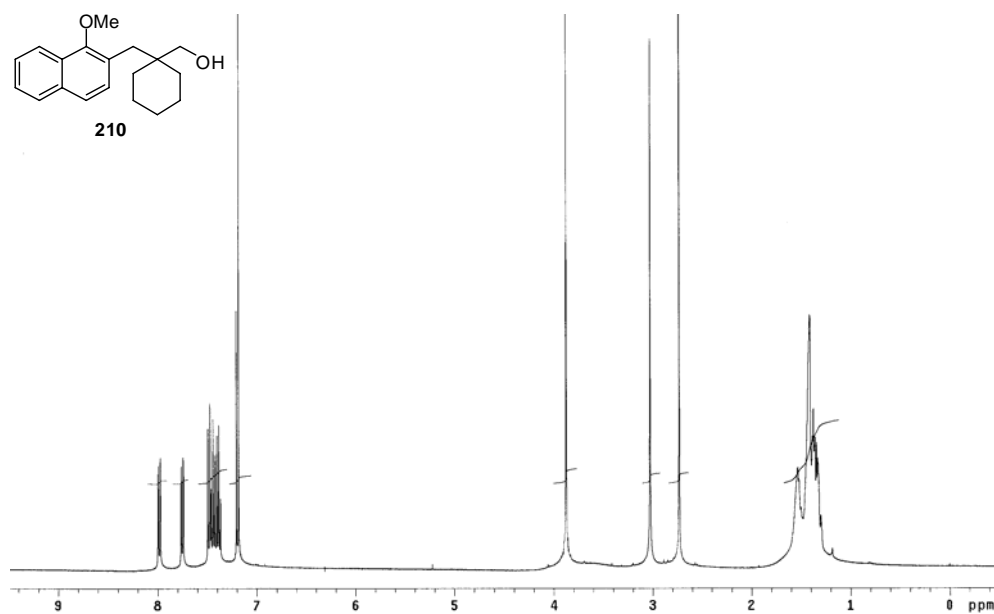
Appendix Figure 80 400 MHz ¹³C NMR spectrum of 1-benzyloxy-2-(3-methoxy-2,2-dimethyl-propyl)-naphthalene (**208**)



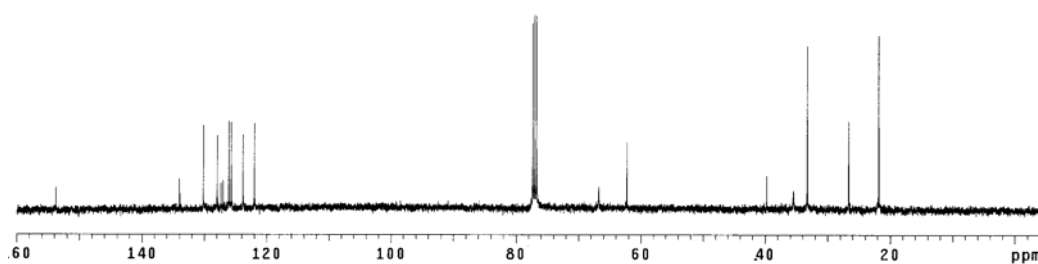
Appendix Figure 81 400 MHz ¹H NMR spectrum of 2-(3-methoxy-2,2-dimethylpropyl)naphthalen-1-ol (**209**)



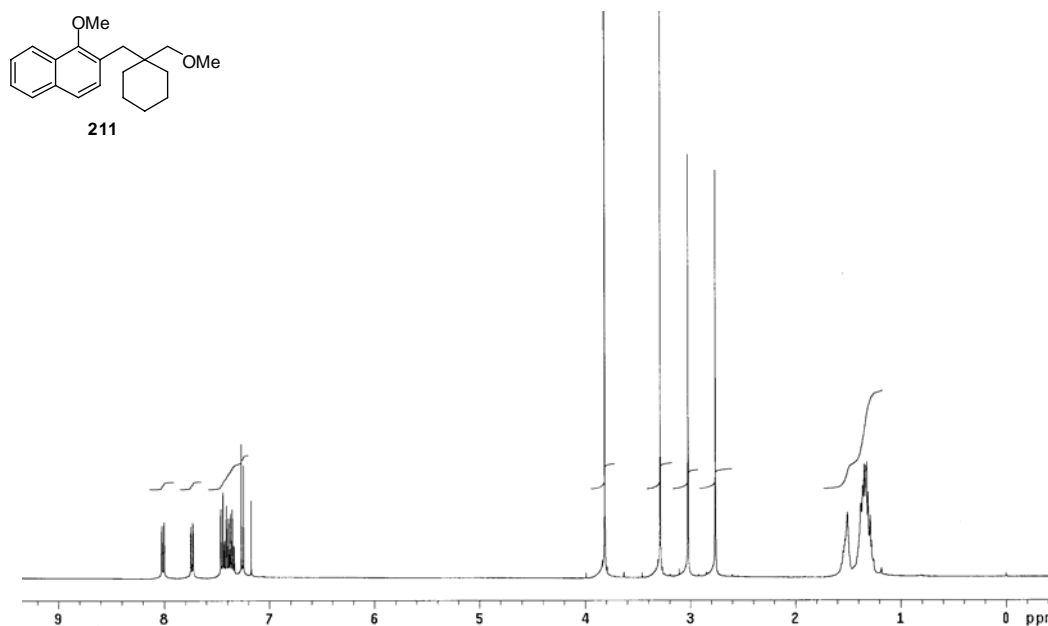
Appendix Figure 82 400 MHz ¹³C NMR spectrum of 2-(3-methoxy-2,2-dimethylpropyl)naphthalen-1-ol (**209**)



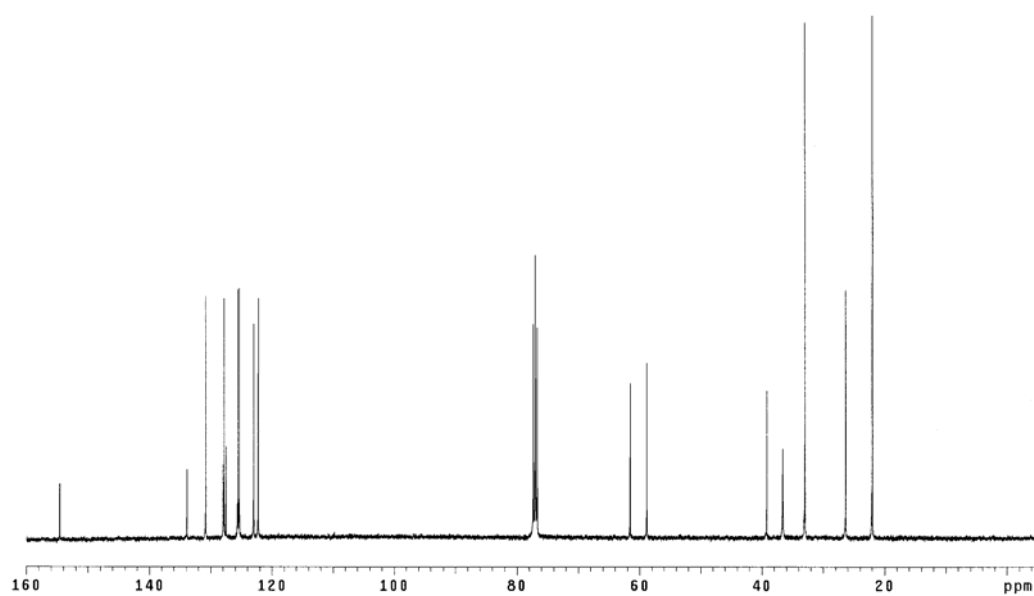
Appendix Figure 83 400 MHz ¹H NMR spectrum of (1-((1-methoxynaphthalen-2-yl)methyl)cyclohexyl)methanol (**210**)



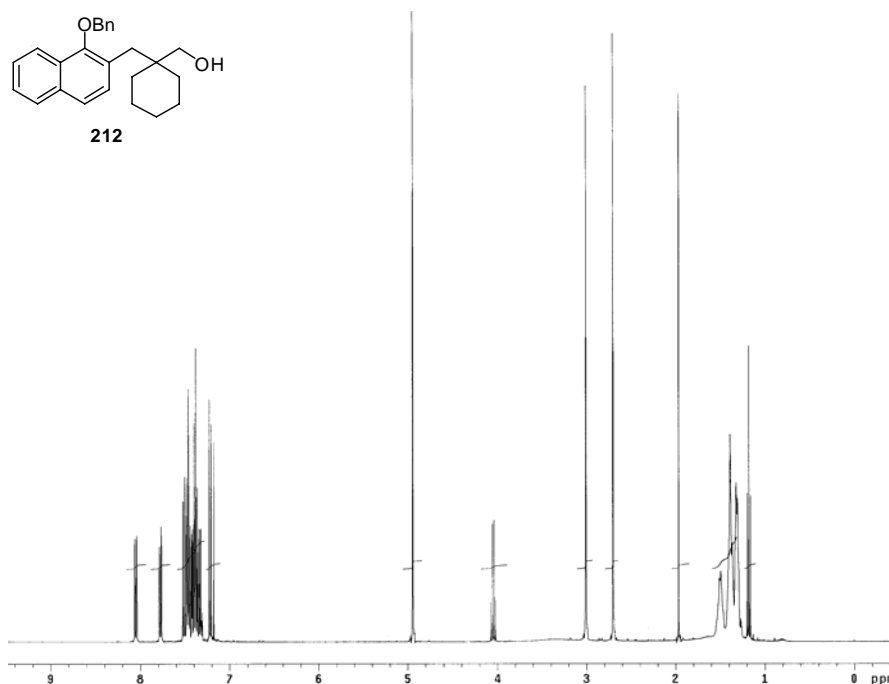
Appendix Figure 84 400 MHz ¹³C NMR spectrum of (1-((1-methoxynaphthalen-2-yl)methyl)cyclohexyl)methanol (**210**)



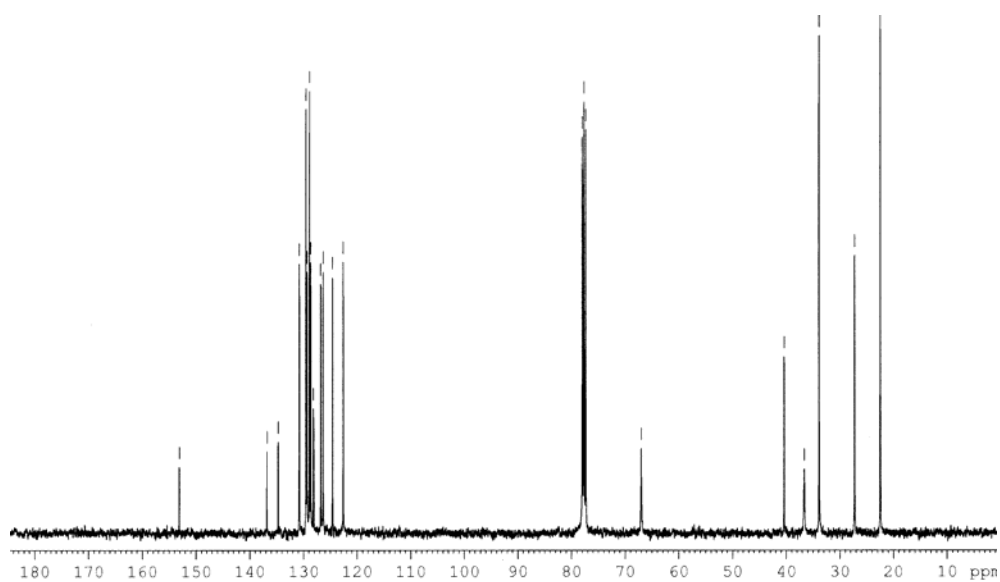
Appendix Figure 85 400 MHz ¹H NMR spectrum of 1-methoxy-2-((1-(methoxymethyl)cyclohexyl)methyl)naphthalene (**211**)



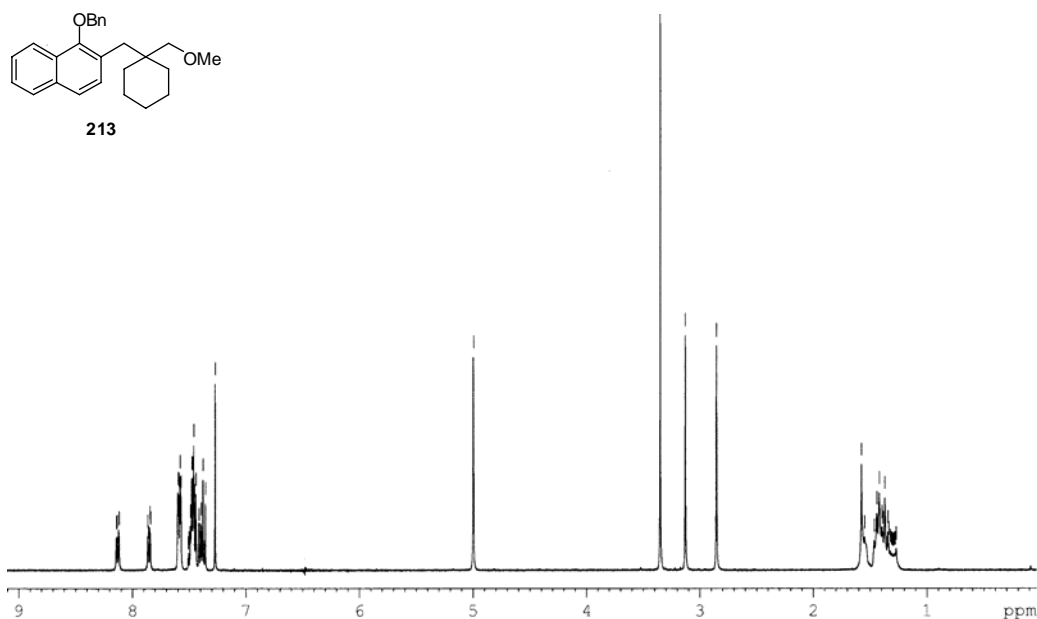
Appendix Figure 86 400 MHz ¹³C NMR spectrum of 1-methoxy-2-((1-(methoxymethyl)cyclohexyl)methyl)naphthalene (**211**)



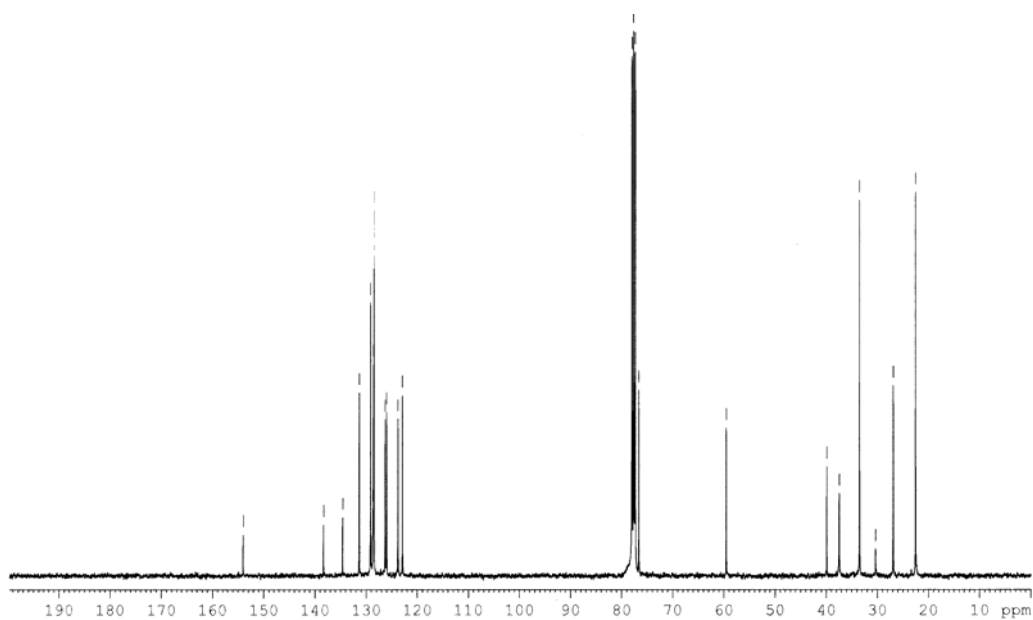
Appendix Figure 87 400 MHz ¹H NMR spectrum of (1-((1-(benzyloxy)naphthalen-2-yl)methyl)cyclohexyl)methanol (**212**)



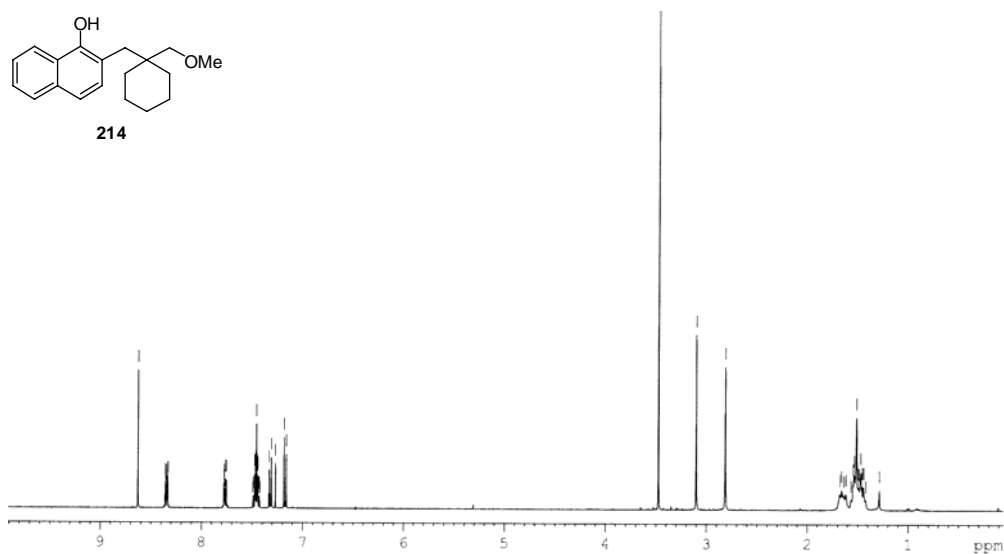
Appendix Figure 88 400 MHz ¹³C NMR spectrum of (1-((1-(benzyloxy)naphthalen-2-yl)methyl)cyclohexyl)methanol (**212**)



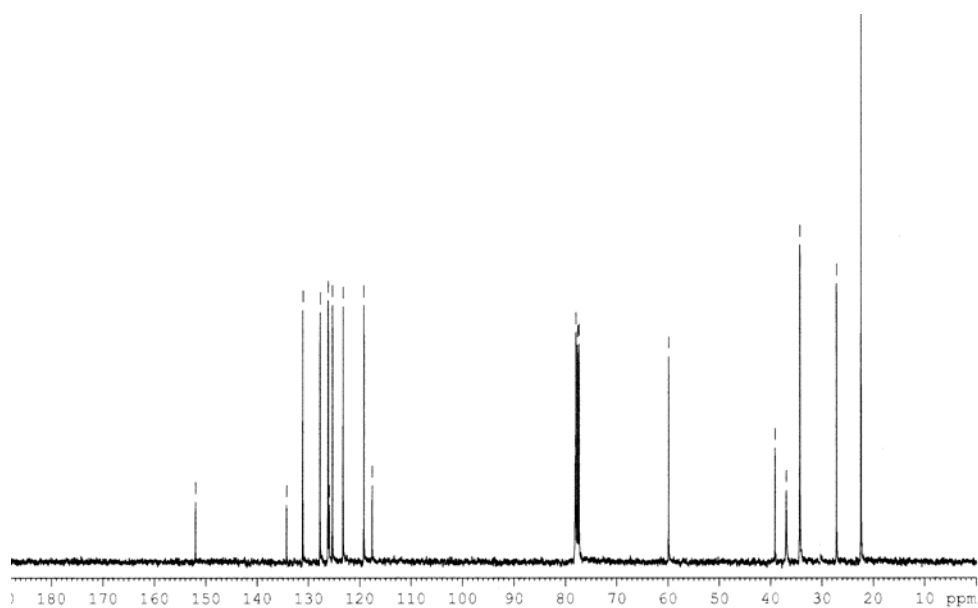
Appendix Figure 89 400 MHz ¹H NMR spectrum of 1-(benzyloxy)-2-((1-(methoxymethyl)cyclohexyl)methyl)naphthalene (**213**)



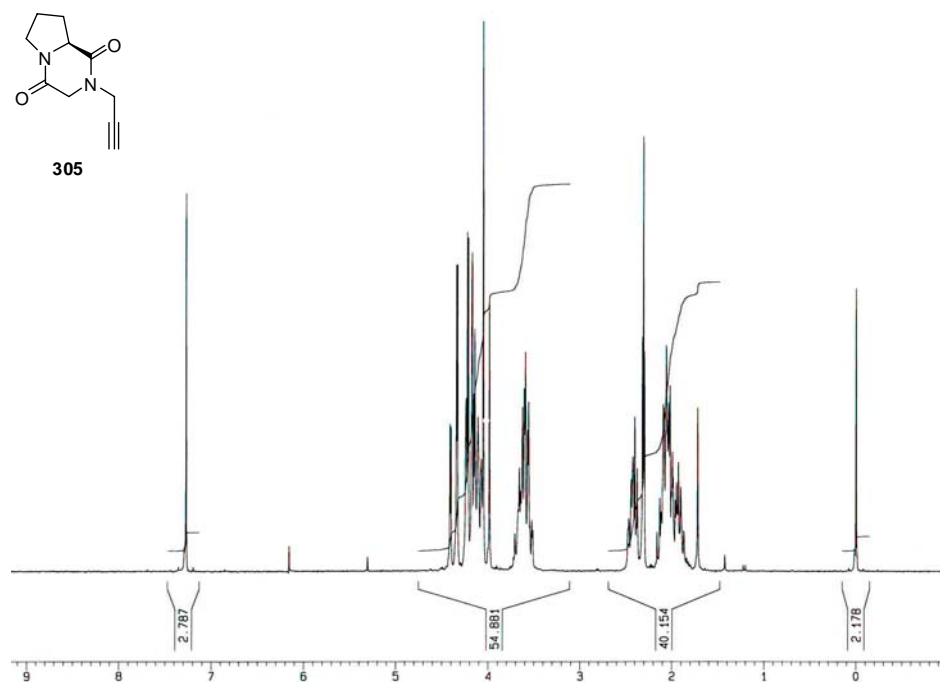
Appendix Figure 90 400 MHz ¹³C NMR spectrum of 1-(benzyloxy)-2-((1-(methoxymethyl)cyclohexyl)methyl)naphthalene (**213**)



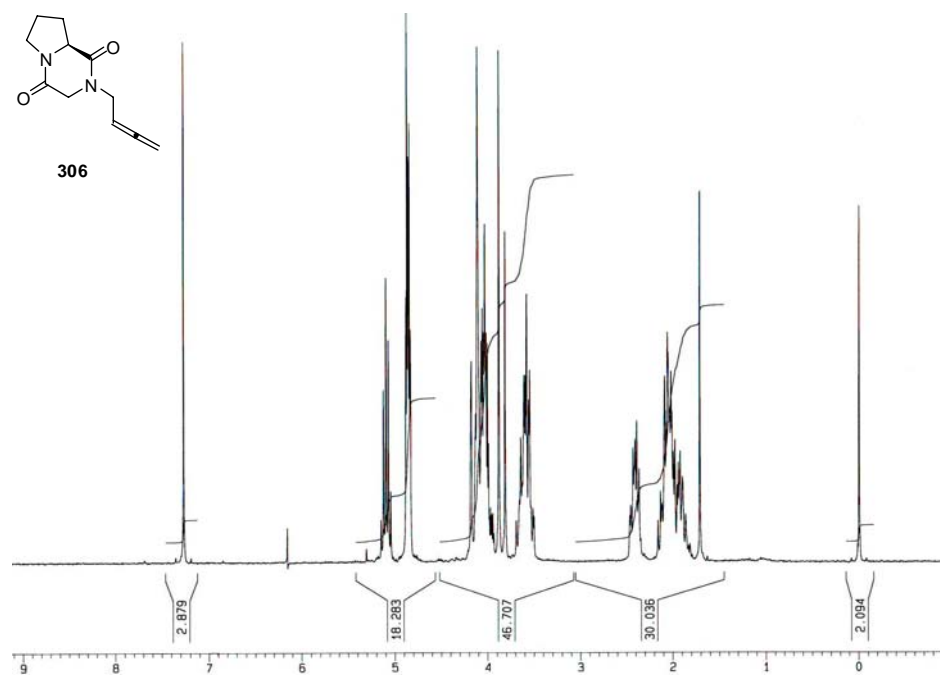
Appendix Figure 91 400 MHz ¹H NMR spectrum of 2-((1-(methoxymethyl)cyclohexyl)methyl)naphthalen-1-ol (**214**)



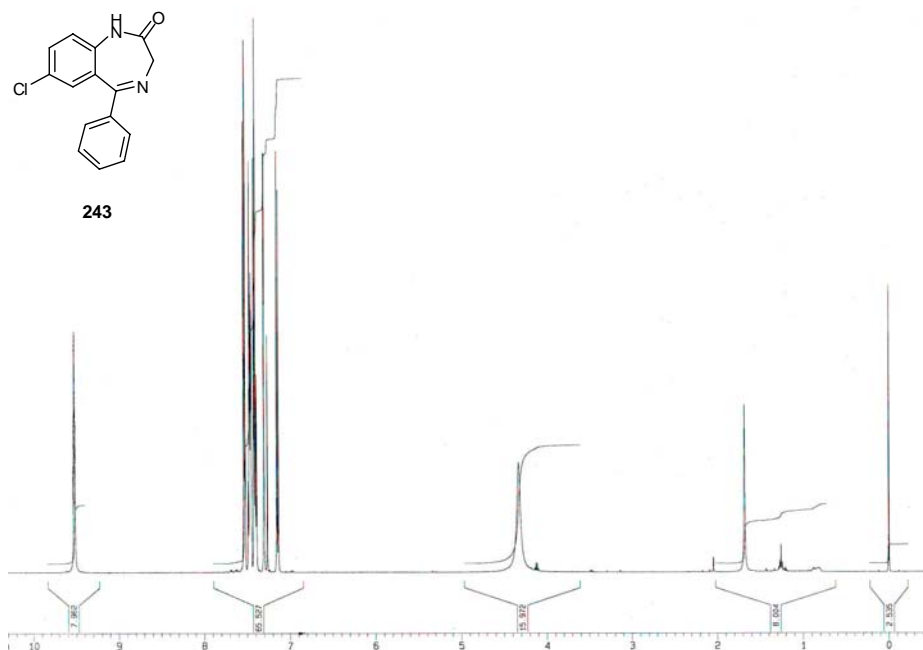
Appendix Figure 92 400 MHz ¹³C NMR spectrum of 2-((1-(methoxymethyl)cyclohexyl)methyl)naphthalen-1-ol (**214**)



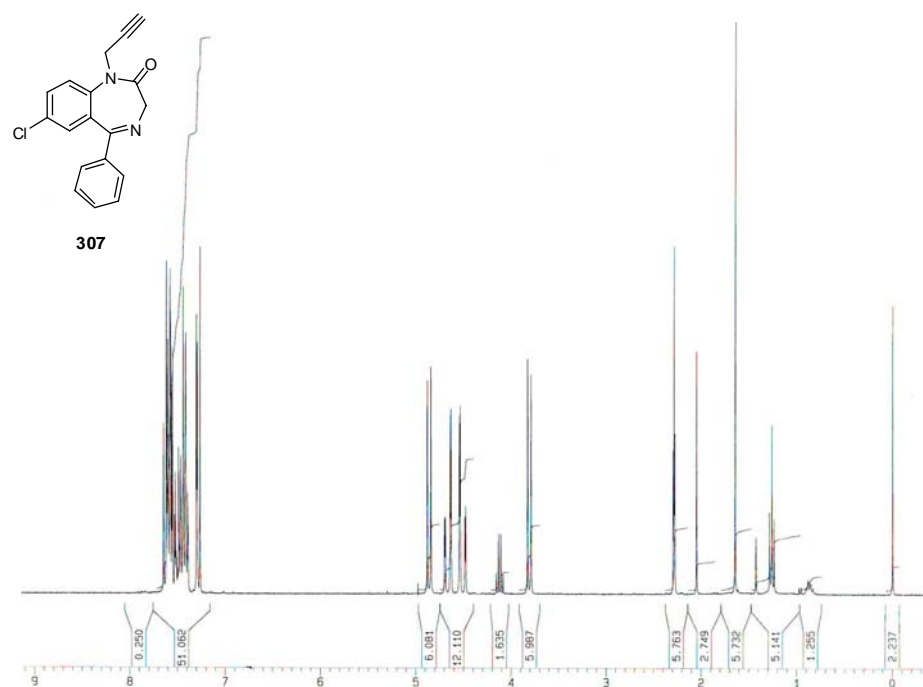
Appendix Figure 93 500 MHz ^{13}C NMR spectrum of (S)-2-(prop-2-ynyl)hexahydro-pyrrolo[1,2-a]pyrazine-1,4-dione (**305**)



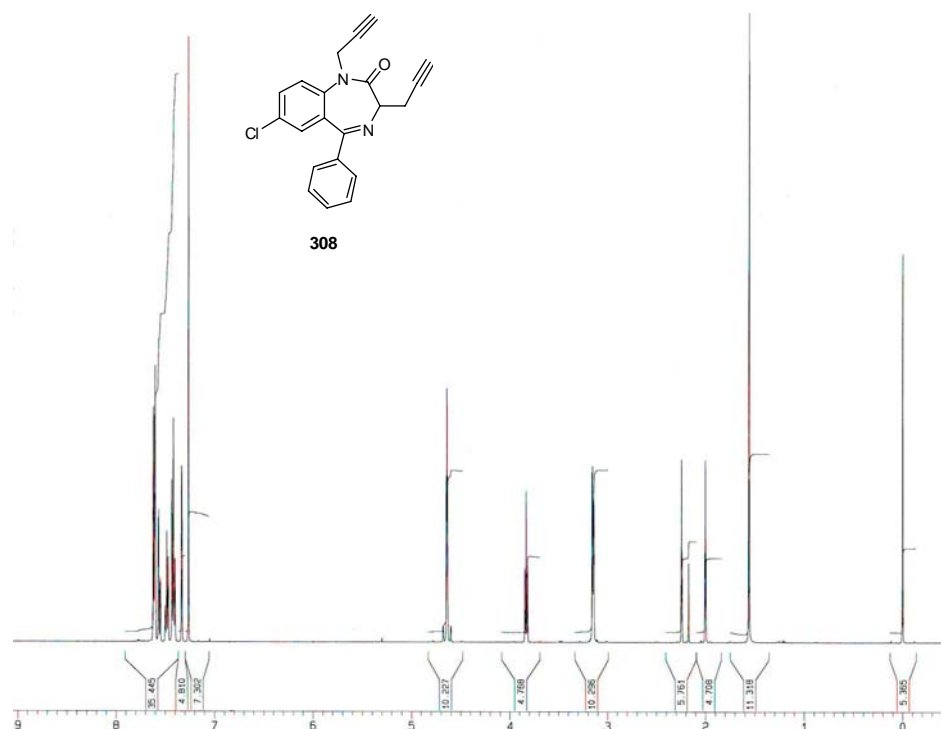
Appendix Figure 94 500 MHz ^{13}C NMR spectrum of 2-buta-2,3-dienyl-hexahydro-pyrrolo[1,2-a]pyrazine-1,4-dione (**306**)



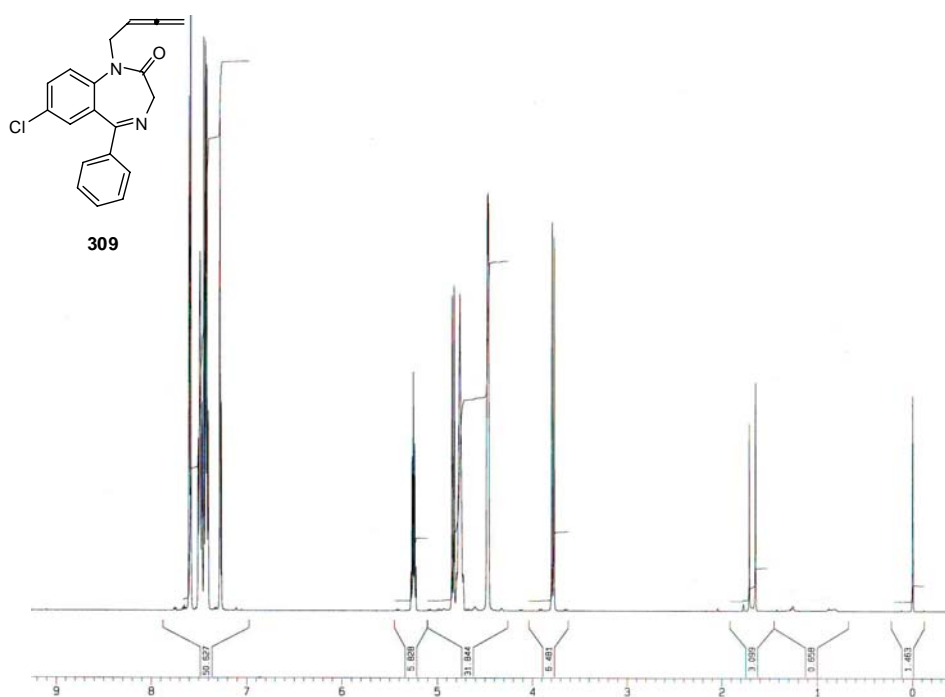
Appendix Figure 95 500 MHz ^{13}C NMR spectrum of 7-chloro-5-phenyl-1,3-dihydrobenzo[e][1,4]diazepin-2-one (243)



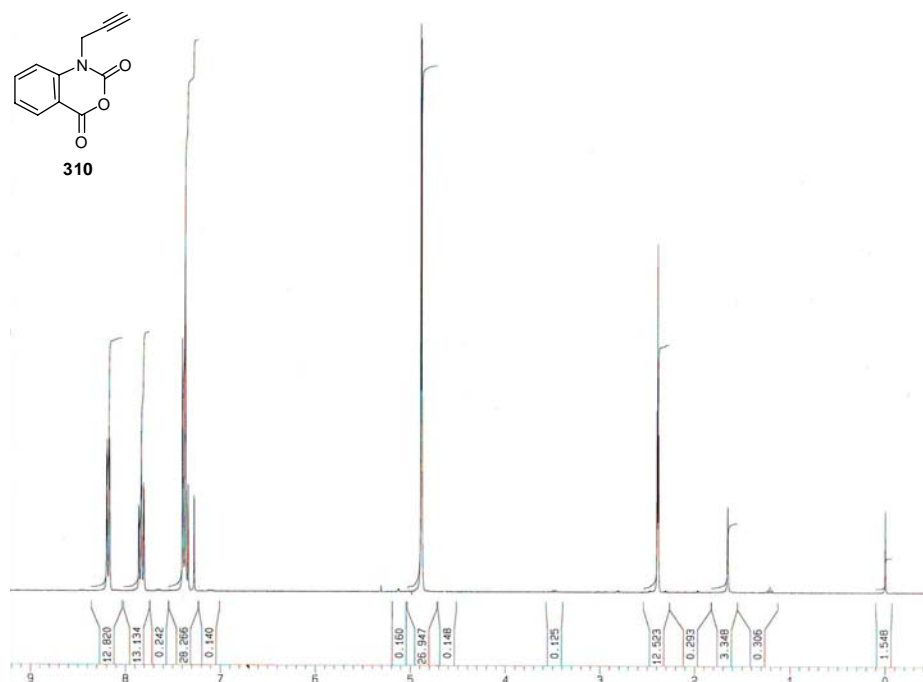
Appendix Figure 96 500 MHz ^{13}C NMR spectrum of 7-chloro-5-phenyl-1-prop-2-ynyl-1,3-dihydrobenzo[e][1,4]diazepin-2-one (307)



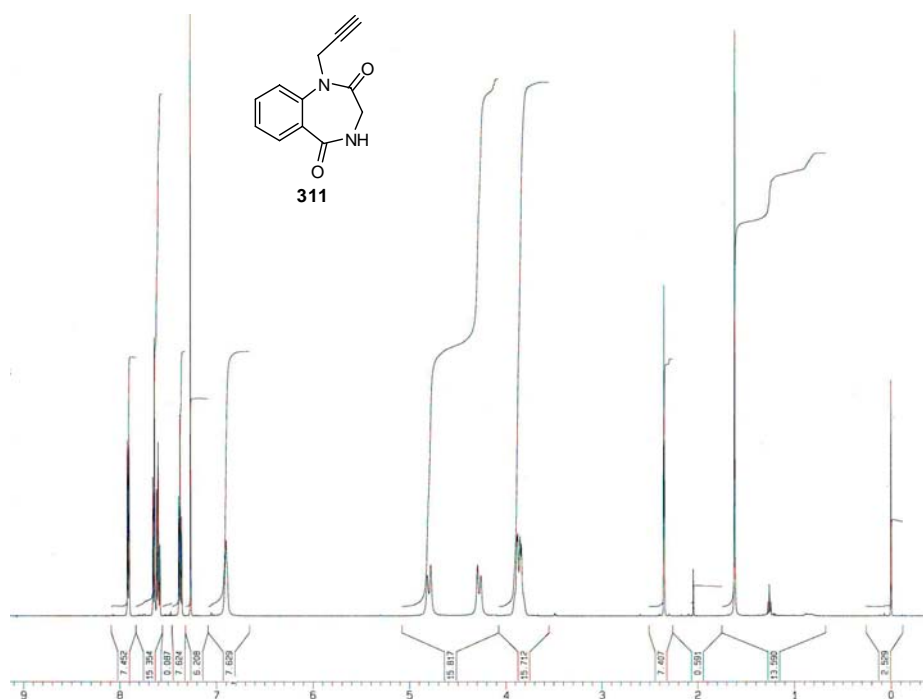
Appendix Figure 97 500 MHz ^{13}C NMR spectrum of 7-chloro-5-phenyl-1,3-diprop-2-ynyl-1,3-dihydro-benzo[e][1,4]diazepin-2-one (**308**)



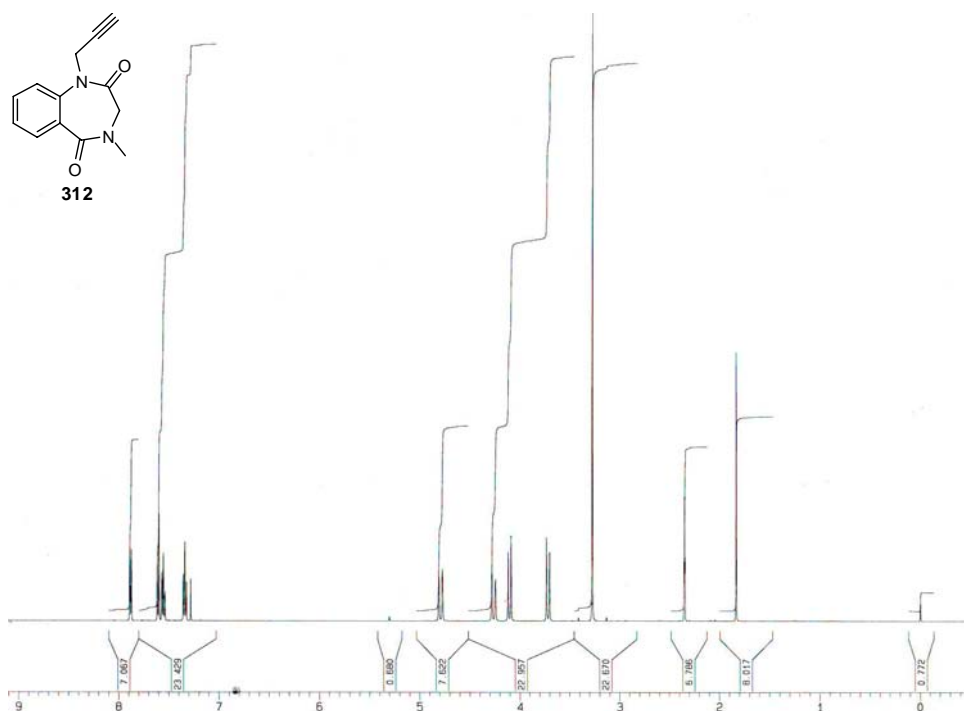
Appendix Figure 98 500 MHz ^{13}C NMR spectrum of 1-buta-2,3-dienyl-7-chloro-5-phenyl-1,3-dihydro-benzo[e][1,4]diazepin-2-one (**309**)



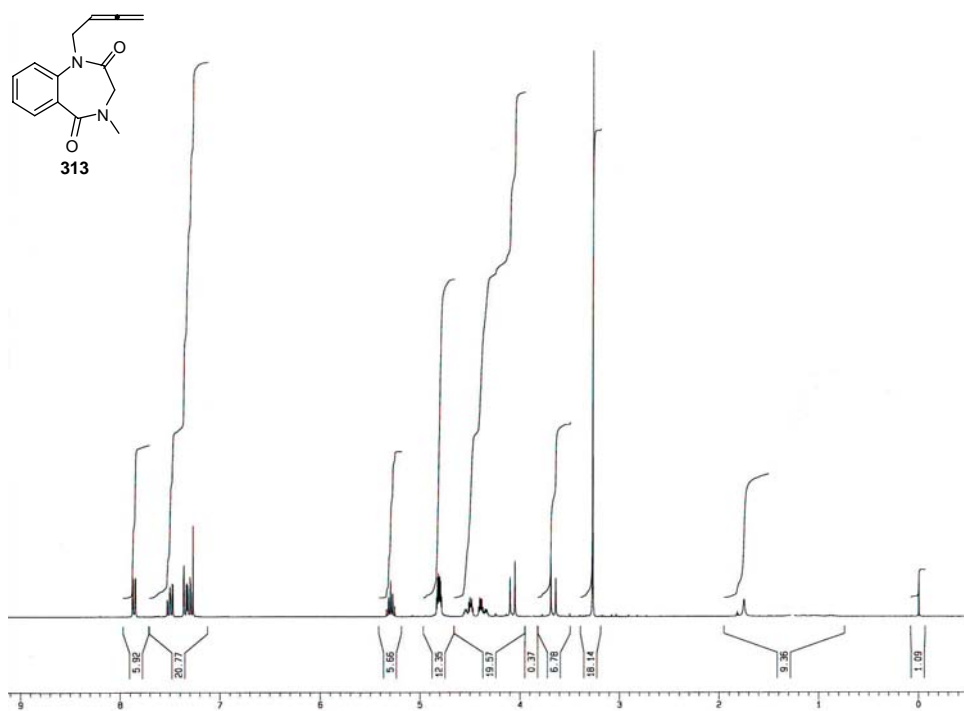
Appendix Figure 99 500 MHz ^{13}C NMR spectrum of 1-prop-2-ynyl-2H-3,1-benzoxazine-2,4(1H)-dione (**310**)



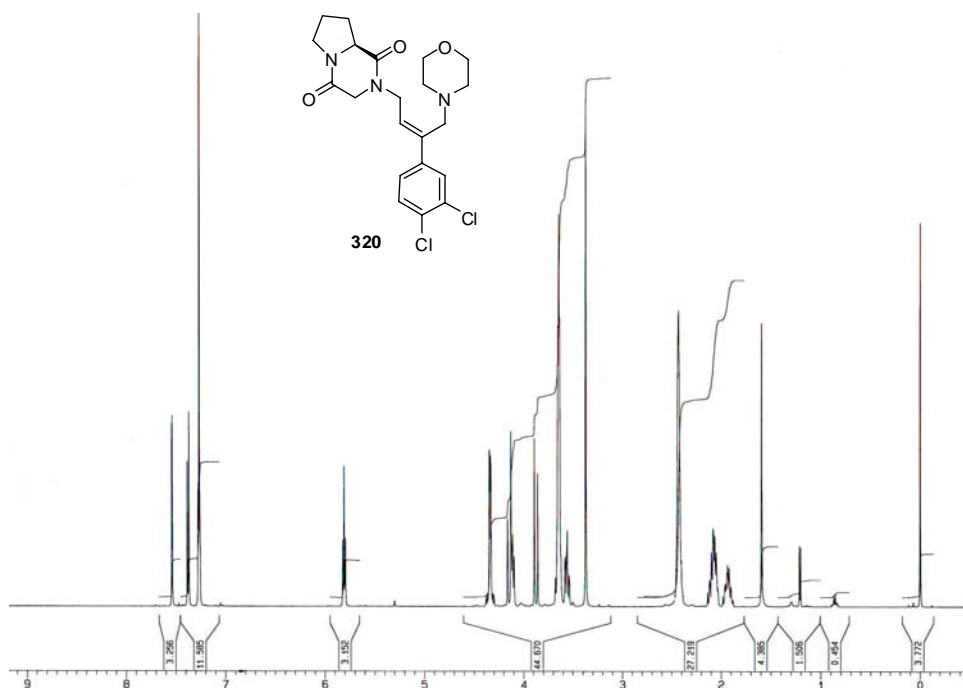
Appendix Figure 100 500 MHz ^{13}C NMR spectrum of 1-prop-2-ynyl-3,4-dihydro-1H-1,4-benzodiazepine-2,5-dione (**311**)



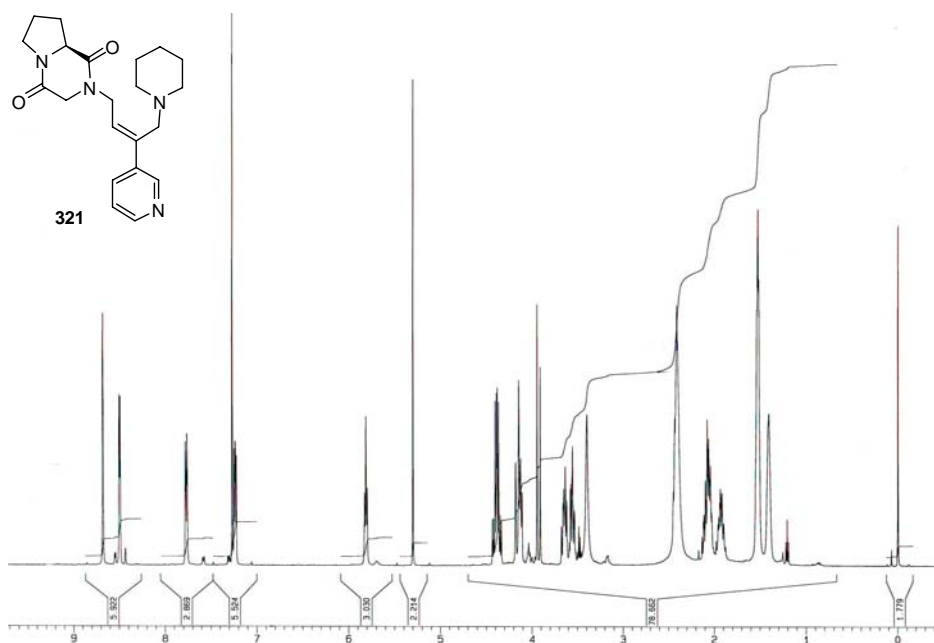
Appendix Figure 101 500 MHz ¹³C NMR spectrum of 4-methyl-1-prop-2-ynyl-3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione (**312**)



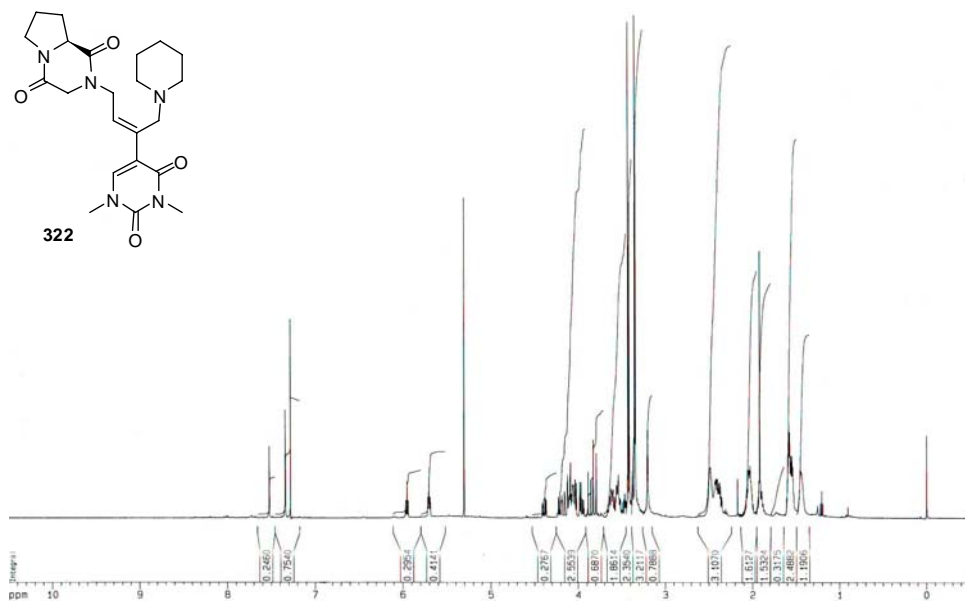
Appendix Figure 102 500 MHz ¹³C NMR spectrum of 1-buta-2,3-dienyl-4-methyl-3,4-dihydro-1H-1,4-benzodiazepine-2,5-dione (**313**)



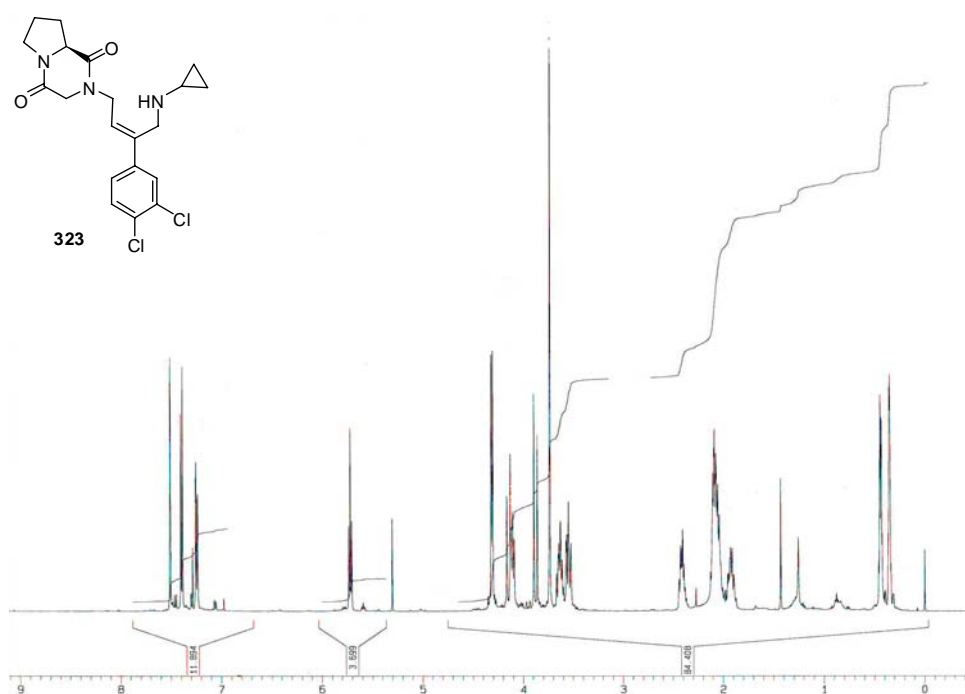
Appendix Figure 103 500 MHz ^{13}C NMR spectrum of 2-[(2Z)-3-(3,4-dichlorophenyl)-4-morpholin-4-yl-but-2-en-1-yl]-hexahydropyrrolo[1,2-a]pyrazine-1,4-dione (**320**)



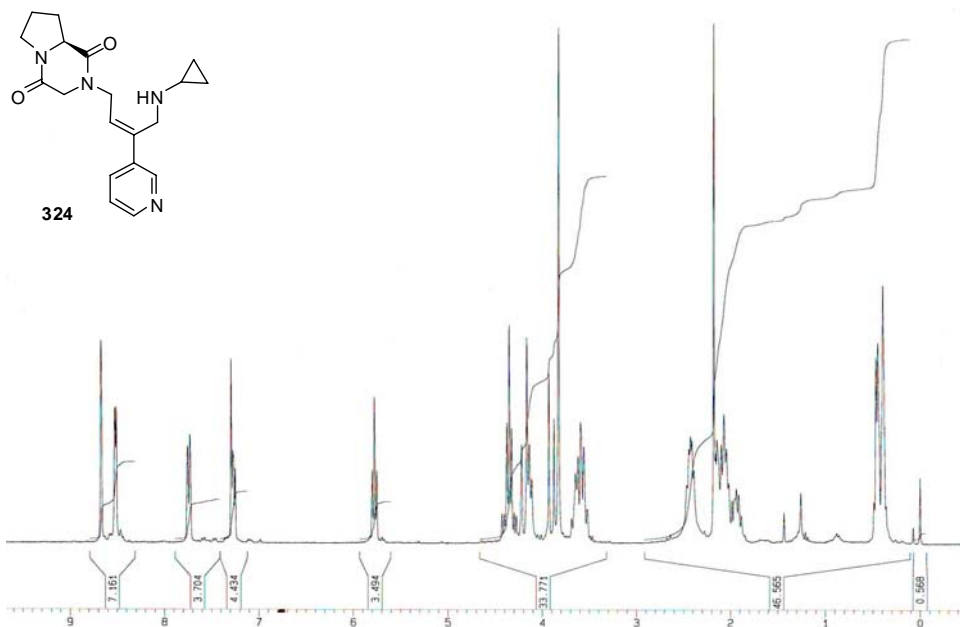
Appendix Figure 104 500 MHz ^{13}C NMR spectrum of 2-[(2Z)-4-piperidin-1-yl-3-pyridin-3-yl-but-2-en-1-yl]-hexahydro-pyrrolo[1,2-a]pyrazine-1,4-dione (**321**)



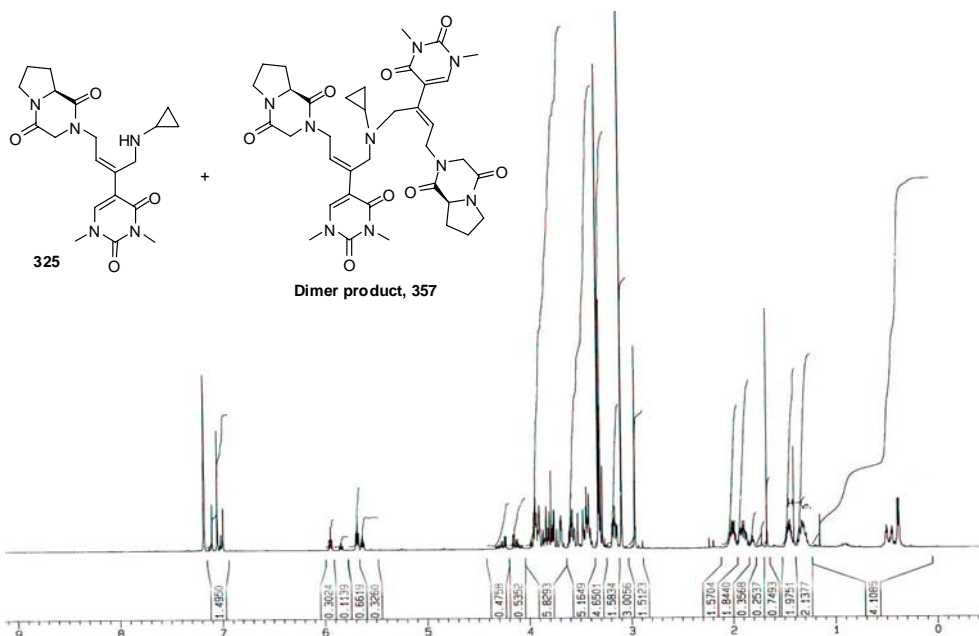
Appendix Figure 105 500 MHz ^{13}C NMR spectrum of 2-[(2Z)-3-(1,3-dimethyl-2,4-dioxo-1,2,3,4-tetrahydro-pyrimidin-5-yl)-4-piperidin-1-yl-but-2-en-1-yl]-hexahydro-pyrrolo[1,2-a]pyrazine-1,4-dione (**322**)



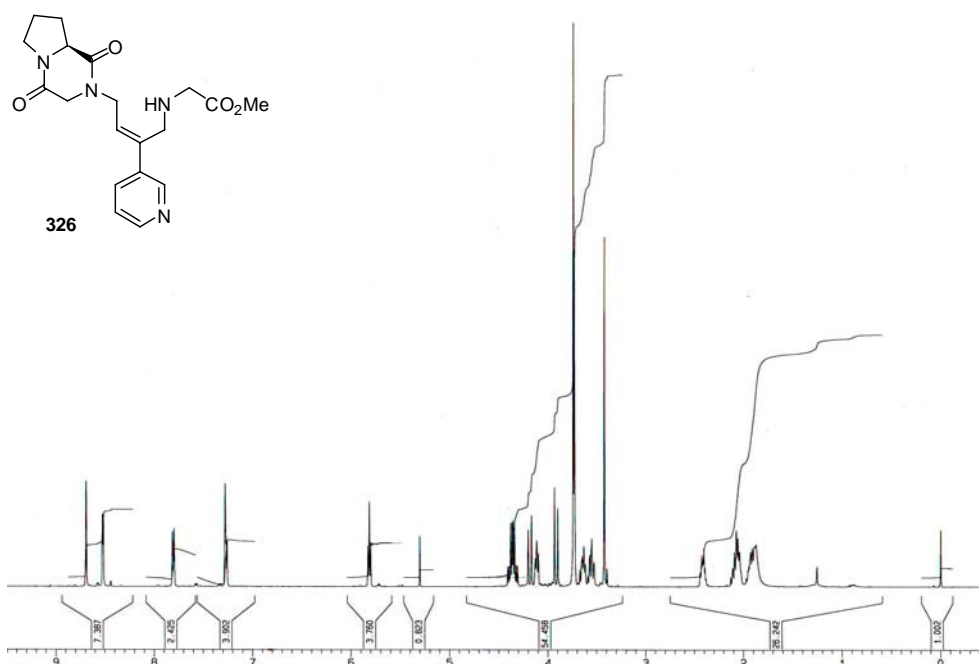
Appendix Figure 106 500 MHz ^{13}C NMR spectrum of 2-[(2Z)-4-cyclopropyl-amino-3-(3,4-dichloro-phenyl)-but-2-en-1-yl]hexahydro-pyrrolo[1,2-a]-pyrazine-1,4-dione (**323**)



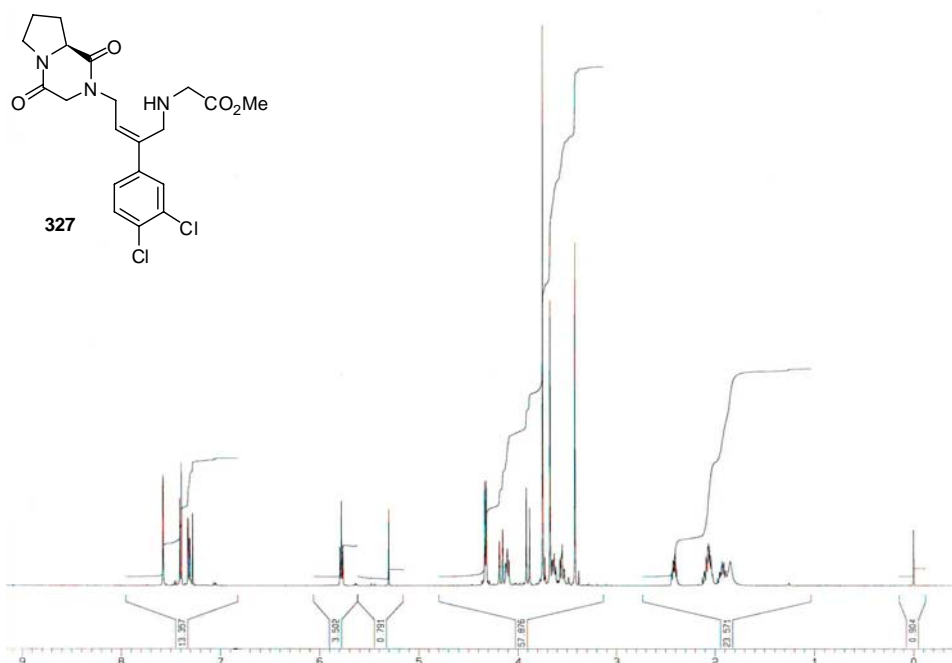
Appendix Figure 107 500 MHz ^{13}C NMR spectrum of 2-[(2Z)-4-cyclopropylamino-3-pyridin-3-yl-but-2-en-1-yl]-hexahydropyrrolo[1,2-a]pyrazine-1,4-dione (**324**)



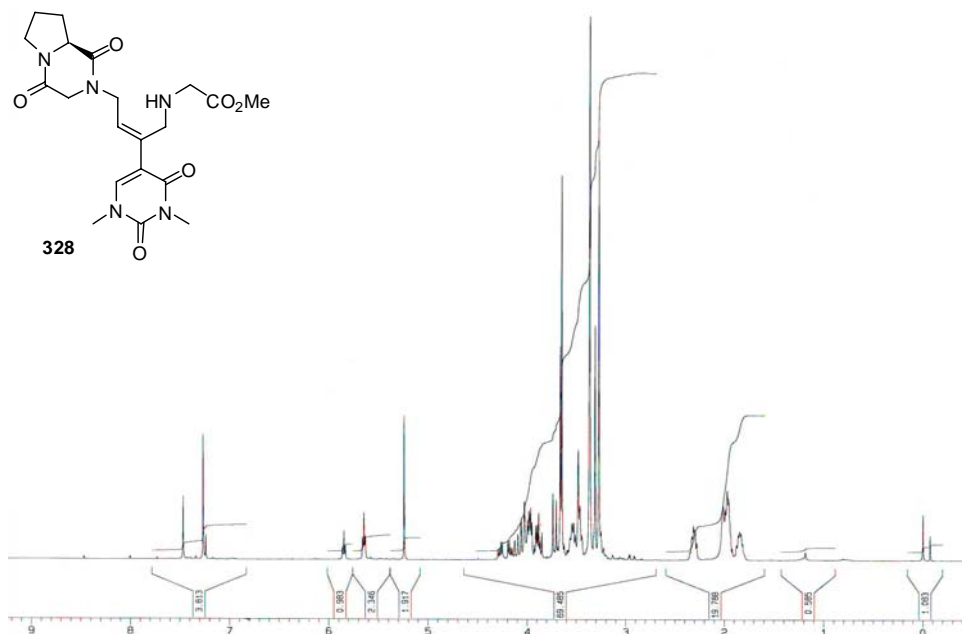
Appendix Figure 108 500 MHz ^{13}C NMR spectrum of 2-[(2Z)-4-cyclopropylamino-3-(1,3-dimethyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-5-yl)-but-2-en-1-yl]-hexahydro-pyrrolo[1,2-a]pyrazine-1,4-dione (**325**)



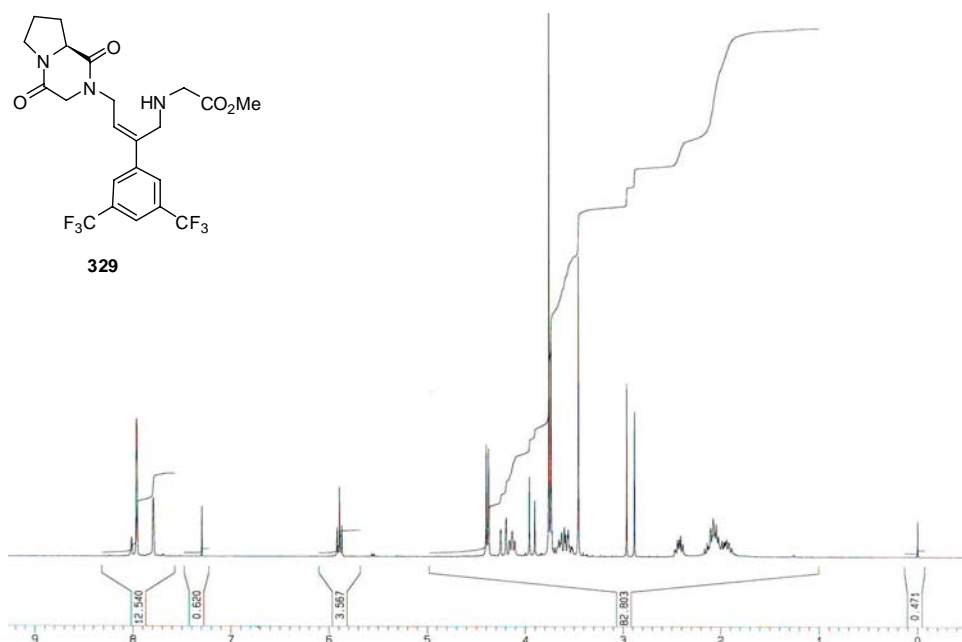
Appendix Figure 109 500 MHz ¹³C NMR spectrum of [4-(1,4-dioxo-hexahydro-pyrrolo[1,2-a]pyrazin-2-yl)-2-pyridin-3-yl]-but-2-enyl-amino]acetic acid methyl ester (**326**)



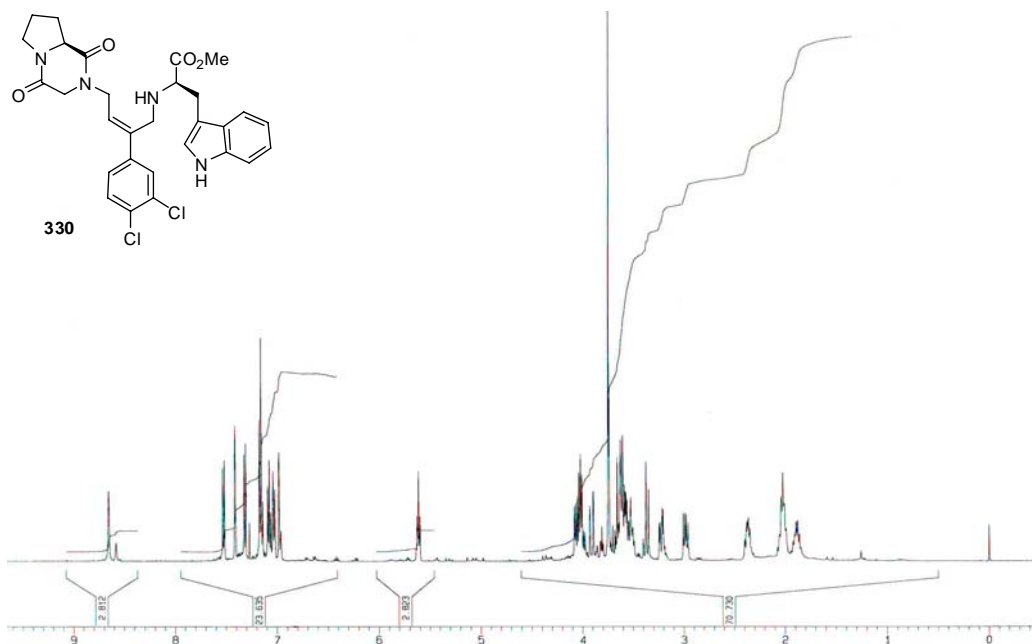
Appendix Figure 110 500 MHz ¹³C NMR spectrum of [2-(3,4-dichloro-phenyl)-4-(dioxo-hexahydro-pyrrolo[1,2-a]pyrazin-2-yl)-but-2-enyl-amino]-acetic acid methyl ester (**327**)



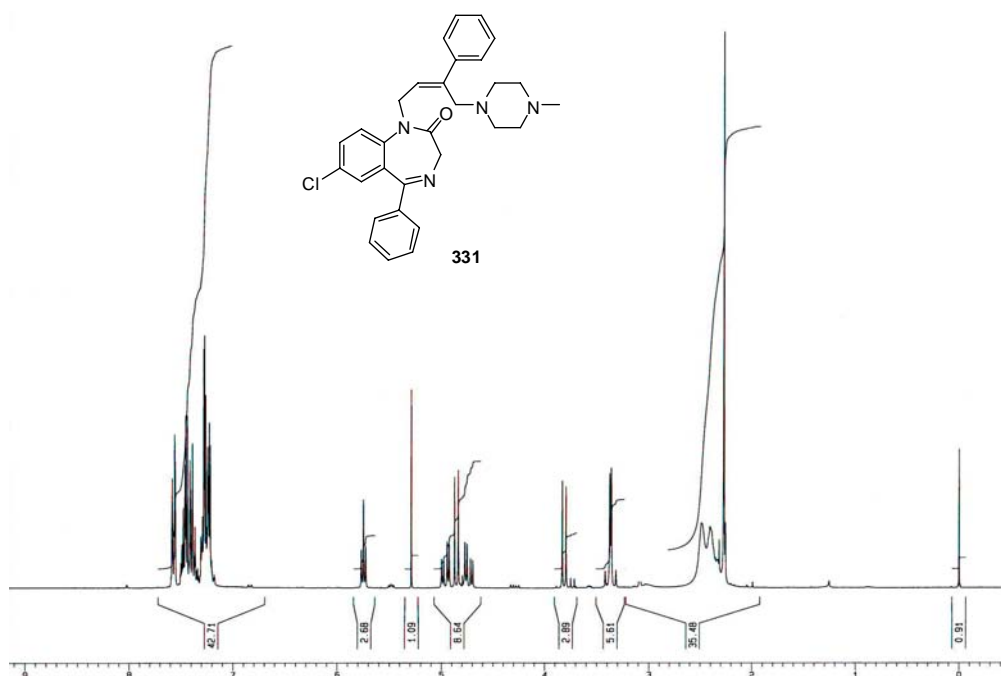
Appendix Figure 111 500 MHz ^{13}C NMR spectrum of [2-(1,3-dimethyl-2,4-dioxo-1,2,3,4-tetrahydro-pyrimidin-5-yl)-4-(1,4-dioxo-hexahydro-pyrrolo[1,2-a]pyrazin-2-yl)-but-2-enylamino]-acetic acid methyl ester (**328**)



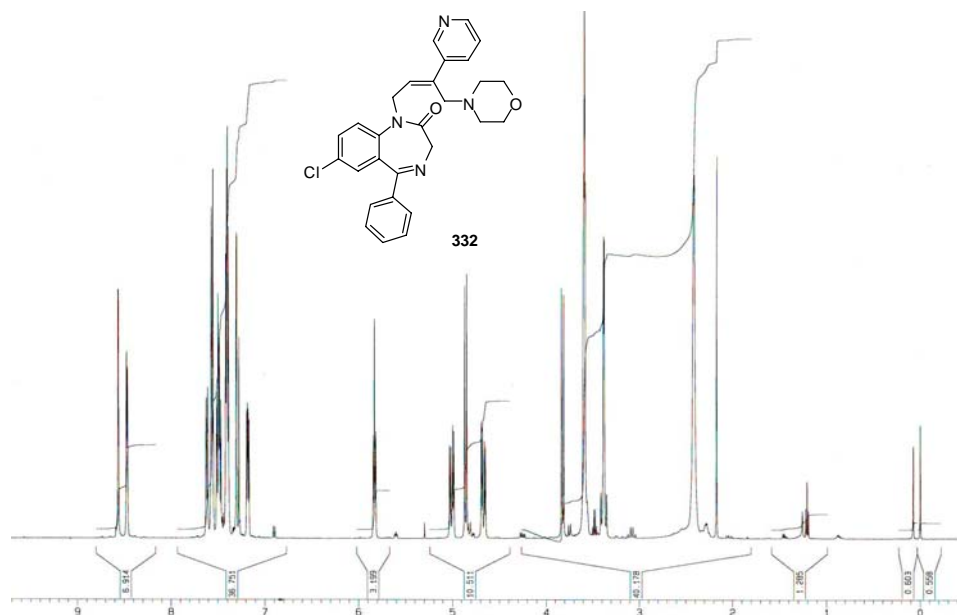
Appendix Figure 112 500 MHz ^{13}C NMR spectrum of [2-(3,5-bis-trifluoromethyl-phenyl)-4-(dioxo-hexahydro-pyrrolo[1,2-a]pyrazin-2-yl)-but-2-enylamino]-acetic acid methyl ester (**329**)



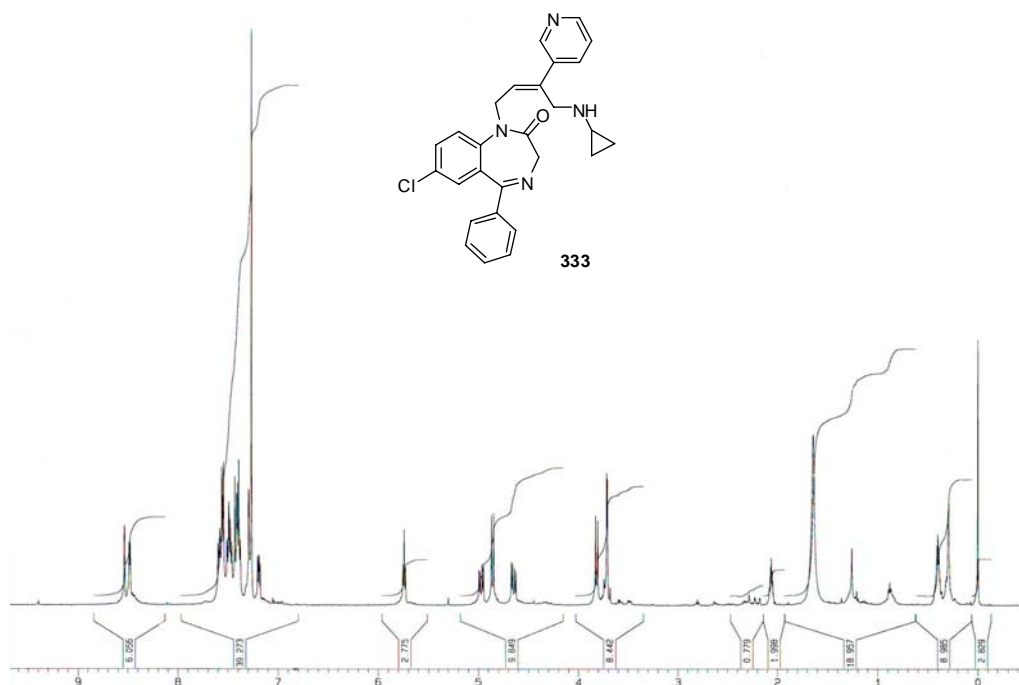
Appendix Figure 113 500 MHz ^{13}C NMR spectrum of 2-{3-(3,4-dichloro-phenyl)-4-[1-(1H-indol-3-ylmethyl)-3-methoxy-2-oxopropyl-amino]-but-2-enyl}-hexahydro-pyrrolo[1,2-a]pyrazine-1,4-dione (**330**)



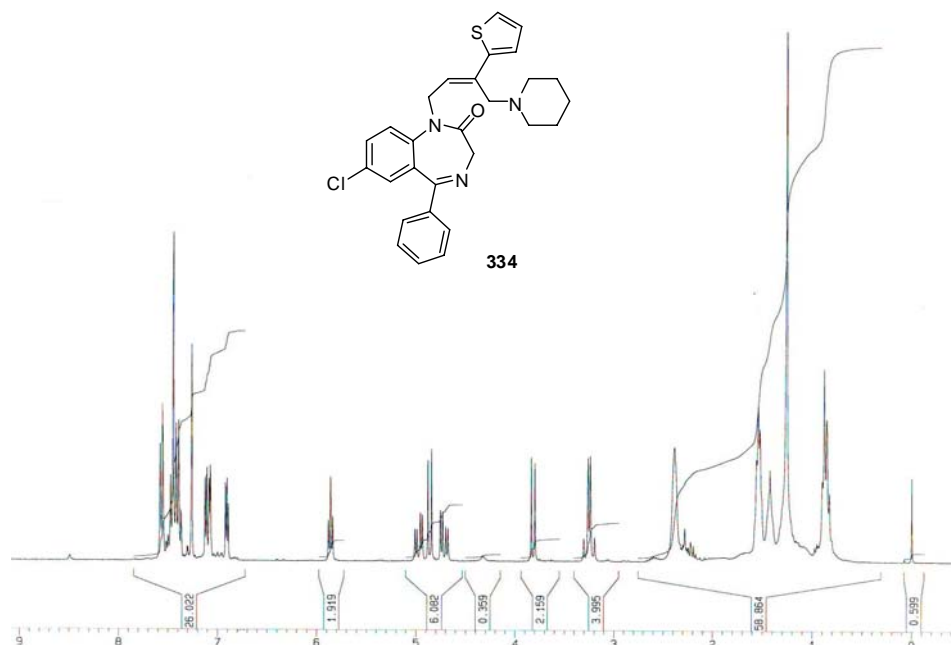
Appendix Figure 114 500 MHz ^{13}C NMR spectrum of 7-chloro-1-[4-(4-methylpiperazin-1-yl)-3-phenylbut-2-enyl]-5-phenyl-1,3-dihydrobenzo[e][1,4]diazepin-2-one (**331**)



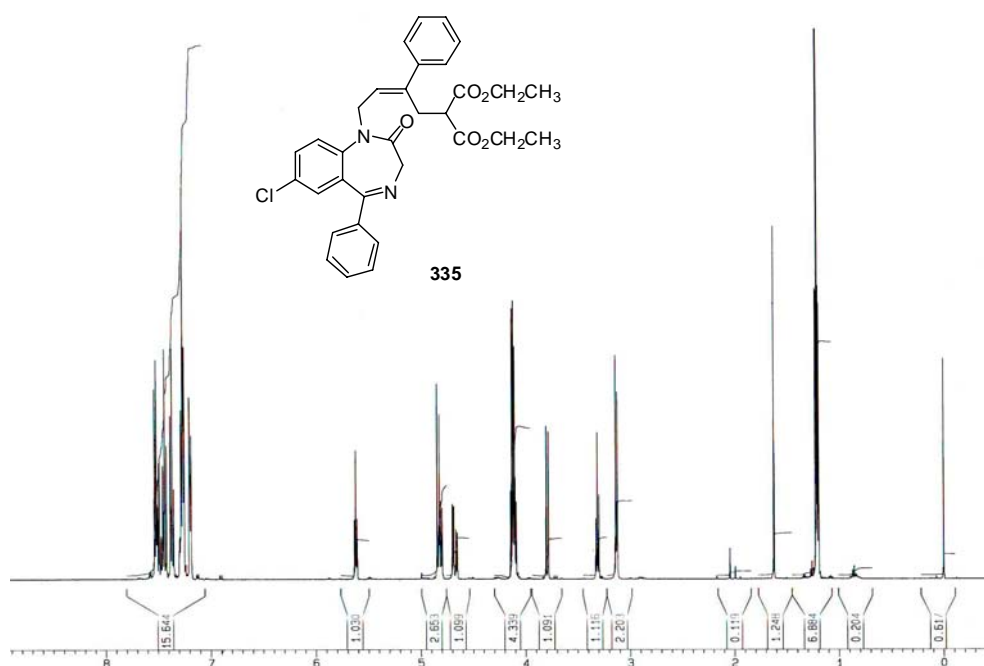
Appendix Figure 115 500 MHz ^{13}C NMR spectrum of 7-chloro-1-(4-morpholin-4-yl-3-pyridin-3-ylbut-2-enyl)-5-phenyl-1,3-dihydrobenzo[e][1,4]diazepin-2-one (332)



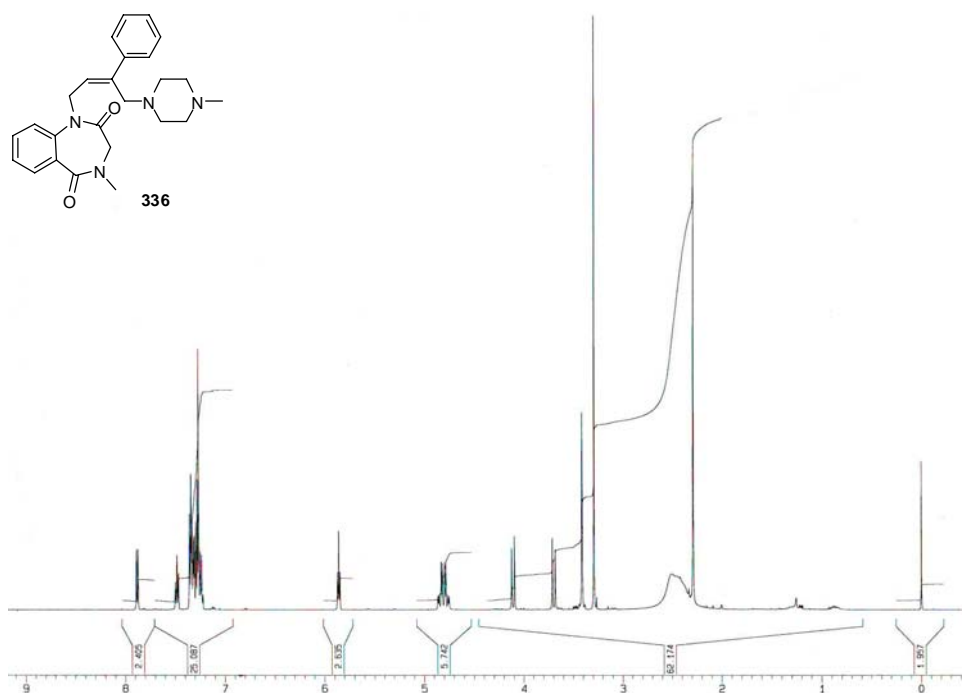
Appendix Figure 116 500 MHz ^{13}C NMR spectrum of 7-chloro-1-(4-cyclopropylamino-3-pyridin-3-ylbut-2-enyl)-5-phenyl-1,3-dihydrobenzo[e][1,4]diazepin-2-one (333)



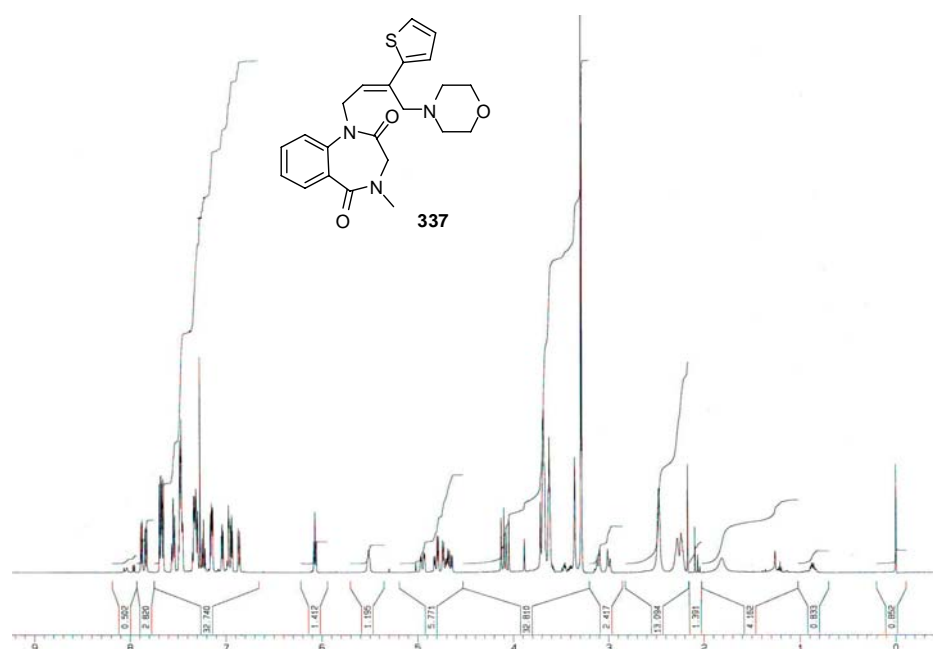
Appendix Figure 117 500 MHz ^{13}C NMR spectrum of 7-chloro-5-phenyl-1-(4-piperidin-1-yl-3-thiophen-2-ylbut-2-enyl)-1,3-dihydrobenzo[e][1,4]diazepin-2-one (**334**)



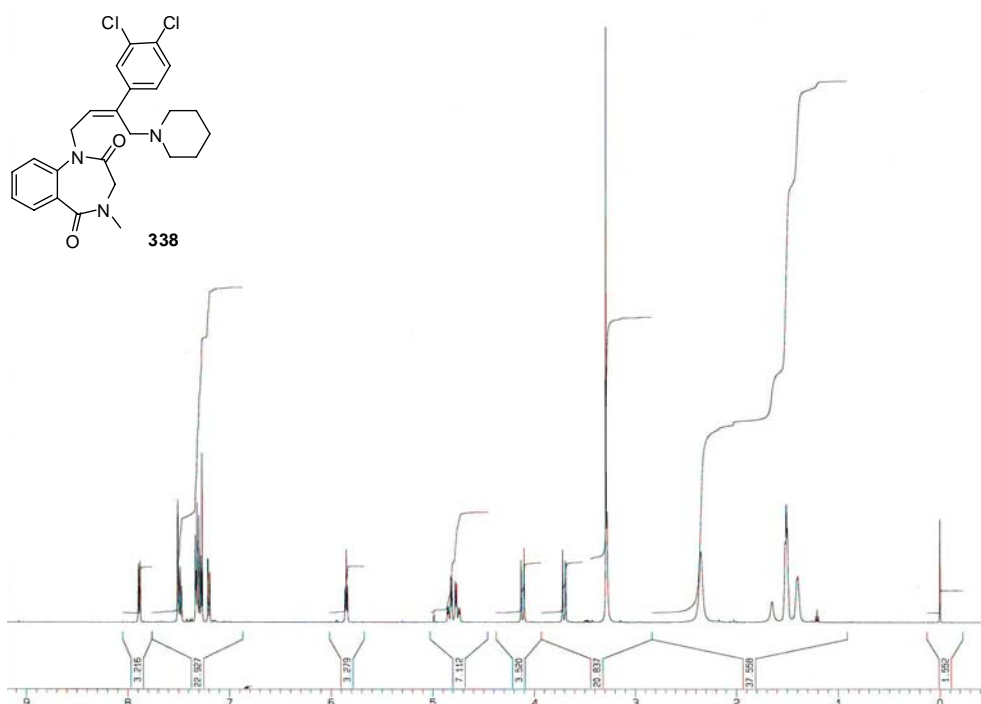
Appendix Figure 118 500 MHz ^{13}C NMR spectrum of 2-[4-(7-chloro-2-oxo-5-phenyl-2,3-dihydrobenzo[e][1,4]diazepin-1-yl)-2-phenylbut-2-enyl]-malonic acid diethyl ester (**335**)



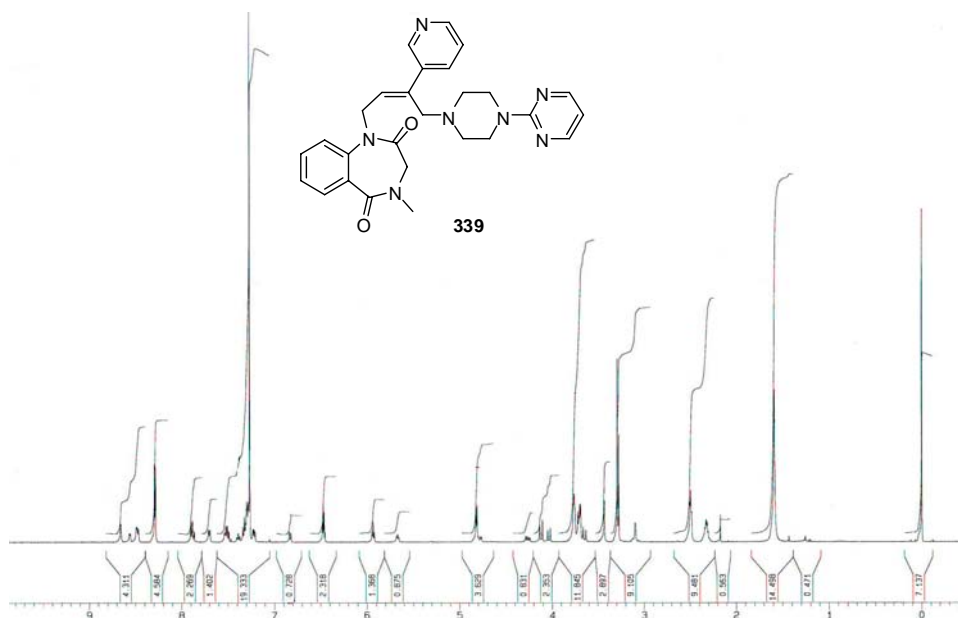
Appendix Figure 119 500 MHz ^{13}C NMR spectrum of 4-methyl-1-[4-(4-methylpiperazin-1-yl)-3-phenylbut-2-enyl]-3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione (**336**)



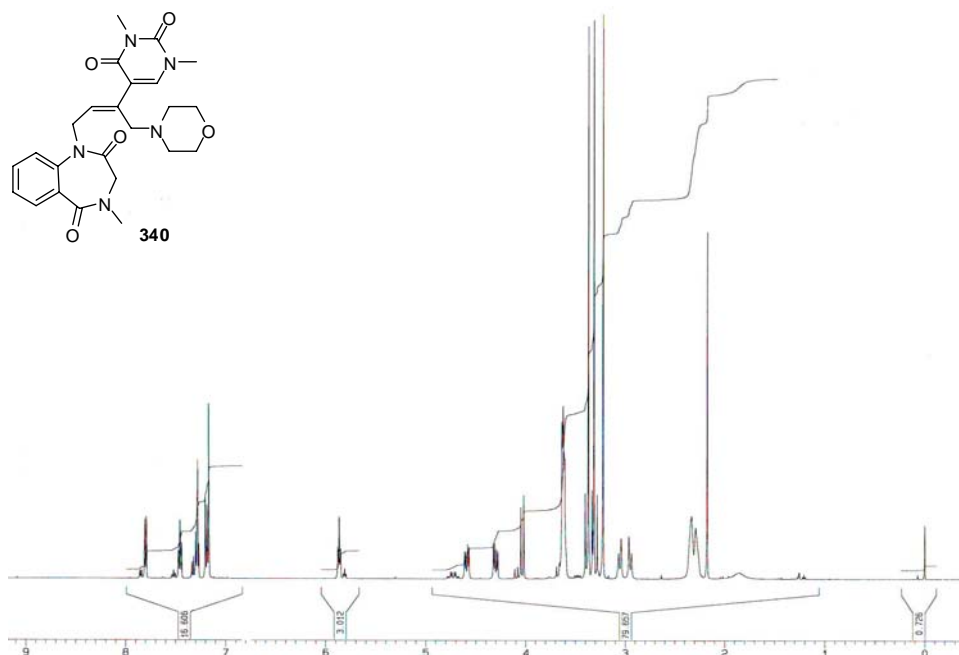
Appendix Figure 120 500 MHz ^{13}C NMR spectrum of 4-methyl-1-(4-morpholin-4-yl-3-thiophen-2-ylbut-2-enyl)-3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione (**337**)



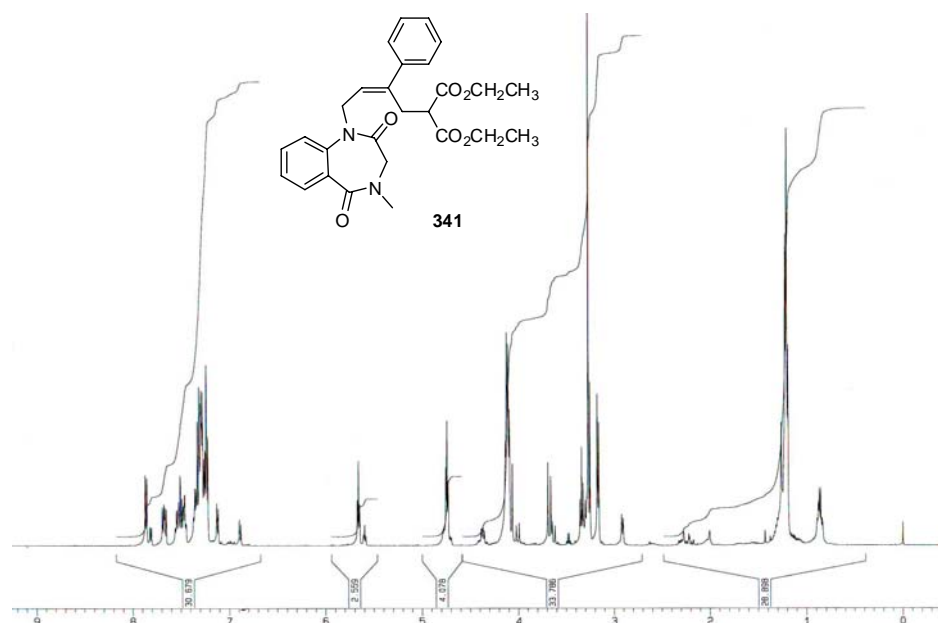
Appendix Figure 121 500 MHz ^{13}C NMR spectrum of 1-[3-(3,4-dichlorophenyl)-4-piperidin-1-ylbut-2-enyl]-4-methyl-3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione (**338**)



Appendix Figure 122 500 MHz ^{13}C NMR spectrum of 4-methyl-1-[3-pyridin-3-yl-4-(4-pyrimidin-2-ylpiperazin-1-yl)-but-2-enyl]-3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione (**339**)



Appendix Figure 123 500 MHz ^{13}C NMR spectrum of 1-[3-(1,3-dimethyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-5-yl)-4-morpholin-4-yl-but-2-enyl]-4-methyl-3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione (**340**)



Appendix Figure 124 500 MHz ^{13}C NMR spectrum of 2-[4-(4-methyl-2,5-dioxo-2,3,4,5-tetrahydro-benzo[e][1,4]diazepin-1-yl)-2-phenylbut-2-enyl]-malonic acid diethyl ester (**341**)