

Pag S2. Experimental part: general  
Pag S3.  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of compound **6**  
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Pag S6.  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of compound **9**  
Pag S7.  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of compound **10**

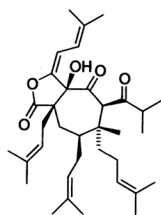
**General:** Column chromatography: Silica Gel 60. Analytical grade solvents were used.  $\text{Na}_2\text{SO}_4$  was used to dry solutions before the evaporation. Reactions were monitored by TLC on Si 60 F<sub>254</sub> (0.25 mm) plates, which were visualized by UV inspection and/or staining with  $(\text{NH}_4)_2\text{MoO}_4$  and heating.

**Spectroscopy:**  $^1\text{H}$  NMR (500 MHz) and  $^{13}\text{C}$  NMR (125 MHz) were recorded at room temperature on a spectrometer endowed of an inverse multinuclear 5 mm probehead equipped with a shielded gradient coil. The spectra were recorded in  $\text{CDCl}_3$ , and the solvent signals (7.26 and 77.0 ppm, respectively) were used as reference. The chemical shifts ( $\delta$ ) are given in ppm, and the coupling constants ( $J$ ) in Hz. COSY, HMQC and HMBC experiments were recorded with gradient enhancements using sine shaped gradient pulses. For the 2D heteronuclear correlation spectroscopy the refocusing delays were optimised for  $^1J_{\text{CH}}=145$  Hz and  $^nJ_{\text{CH}}=10$  Hz. The raw data were transformed and the spectra were evaluated with the standard XWIN-NMR software (rev. 010101).

ESIMS<sup>n</sup> spectra were recorded on a LCQ ion trap mass spectrometer equipped with a NT<sup>TM</sup> data system and an Electrospray interface (ESI). Mass spectrometer conditions were optimized in order to achieve maximum sensitivity. ESI conditions: source voltage 4.5 kV, sheath gas flow rate 60 au, source current 80 mA, capillary voltage -38 V and capillary temperature 200°C. Full scan spectra from 150 to 2000 u in the negative ion mode were obtained (scan time 1 s). Ion trap conditions: acquisition in automatic gain control with a max-inject time of 200 msec. For the MS<sup>n</sup> analyses the  $[\text{M-H}]^-$  molecular ions were isolated with an isolation width of 3 m/z units and fragmented using an activation amplitude of 30% for MS<sup>2</sup> experiments and 30% for MS<sup>n</sup> experiments. HREIMS spectra were taken at 70 eV. FAB mass spectra were recorded in positive mode.

Horse radish peroxidase (HRP) was purchased from Roche as lyophilized powder (# 127 361,  $M_r$  ~44000 g/mol, 220 U/mg); catalase from bovine liver was purchased from Fluka as crystalline suspension in water (# 60630,  $M_r$  ~ 240000 g/mol, 65000 U/mg, 20 mg/mL); albumin from eggs was purchased from Merck as dry fine powder (# 967,  $M_r$  ~45000 g/mol); human serum albumin (HSA) was purchased from Fluka as dry powder (# 05430,  $M_r$  ~68000 g/mol).

Current Data Parameters  
NAME GA-ed004  
EXPNO 1  
PROCNO 1  
F2 - Acquisition Parameters  
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INSTRUM drx500c  
PROBHD 5 mm BBI  
PULPROG zg  
TD 64102  
SOLVENT CDCl3  
NS 8  
DS 2  
SWH 8503.401 Hz  
FIDRES 0.132654 Hz  
AQ 3.7592475 sec  
RG 64  
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D1 0.00100000 sec

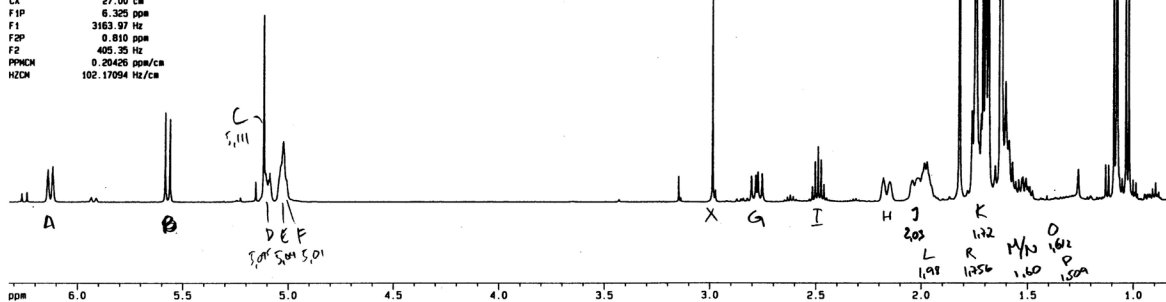


Compound 6

----- CHANNEL f1 -----  
NUC1 1H  
P1 6.00 usec  
PL1 2.00 dB  
SFO1 500.2031464 MHz

F2 - Processing parameters  
SI 131072  
SF 500.2000273 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 27.00 cm  
F1P 6.325 ppm  
F1 3163.97 Hz  
F2P 0.810 ppm  
F2 405.35 Hz  
PPMCH 0.20426 ppm/cm  
HZCM 102.17094 Hz/cm



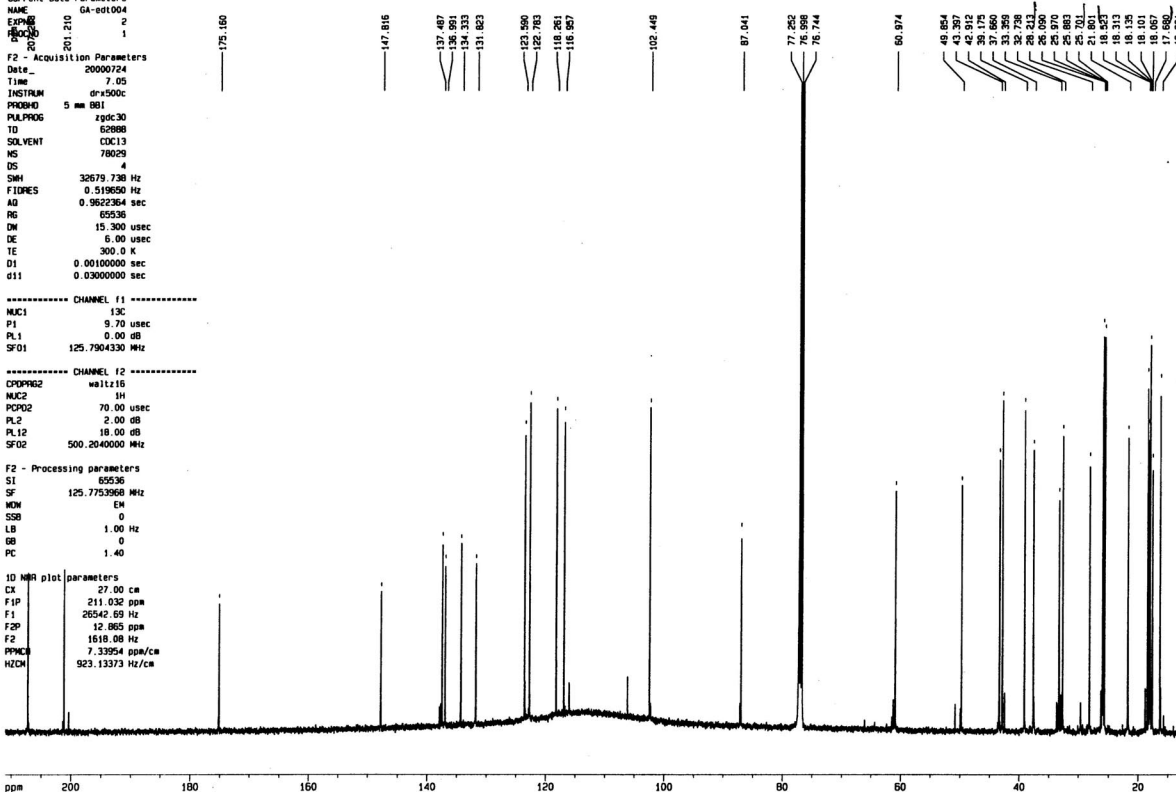
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PROCNO 1  
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PULPROG zgpg30  
TD 62888  
SOLVENT CDCl3  
NS 78029  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.519650 Hz  
AQ 0.9622364 sec  
RG 65536  
DM 15.300 usec  
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TE 300.0 K  
D1 0.00100000 sec  
d11 0.03000000 sec

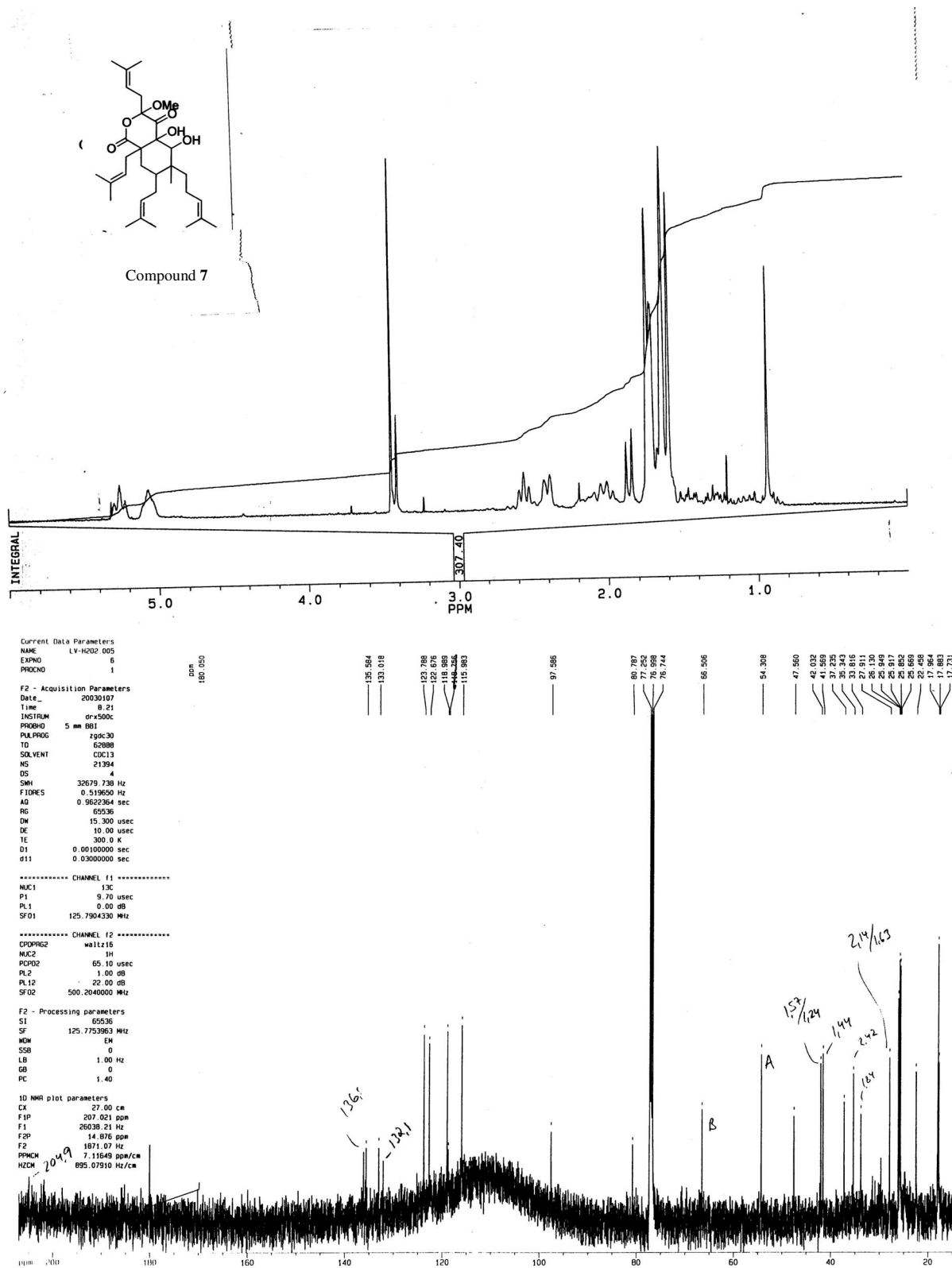
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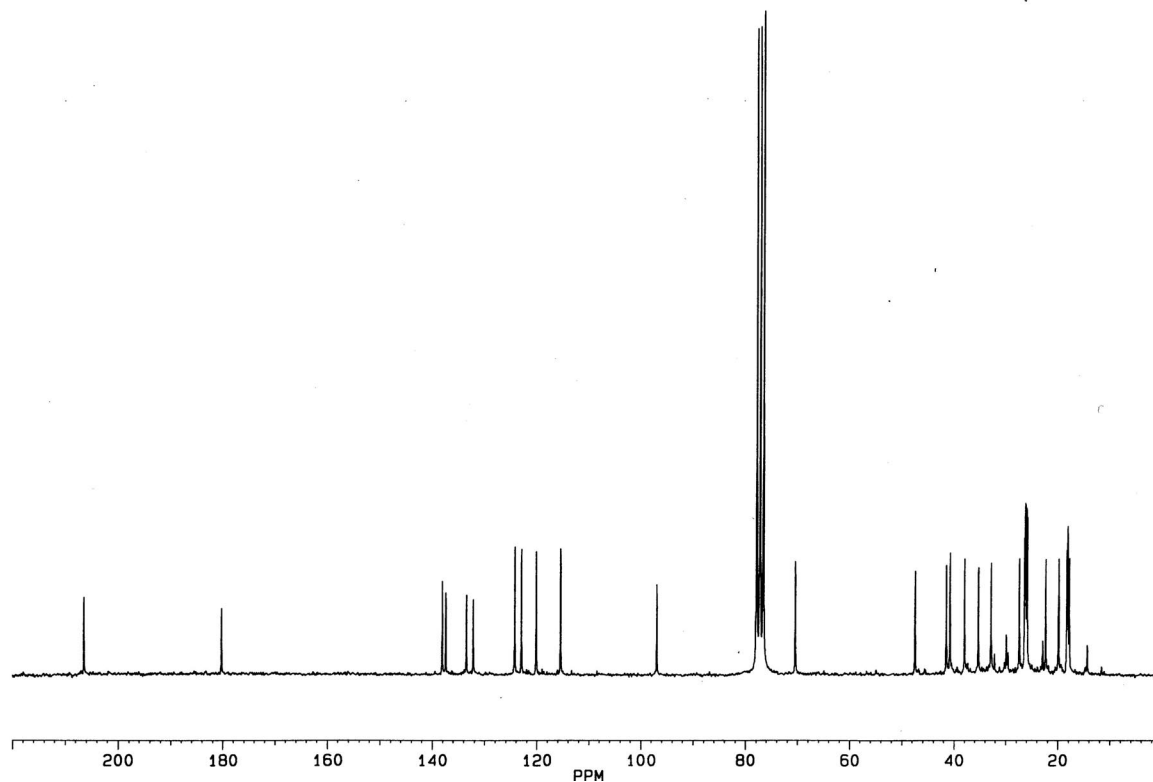
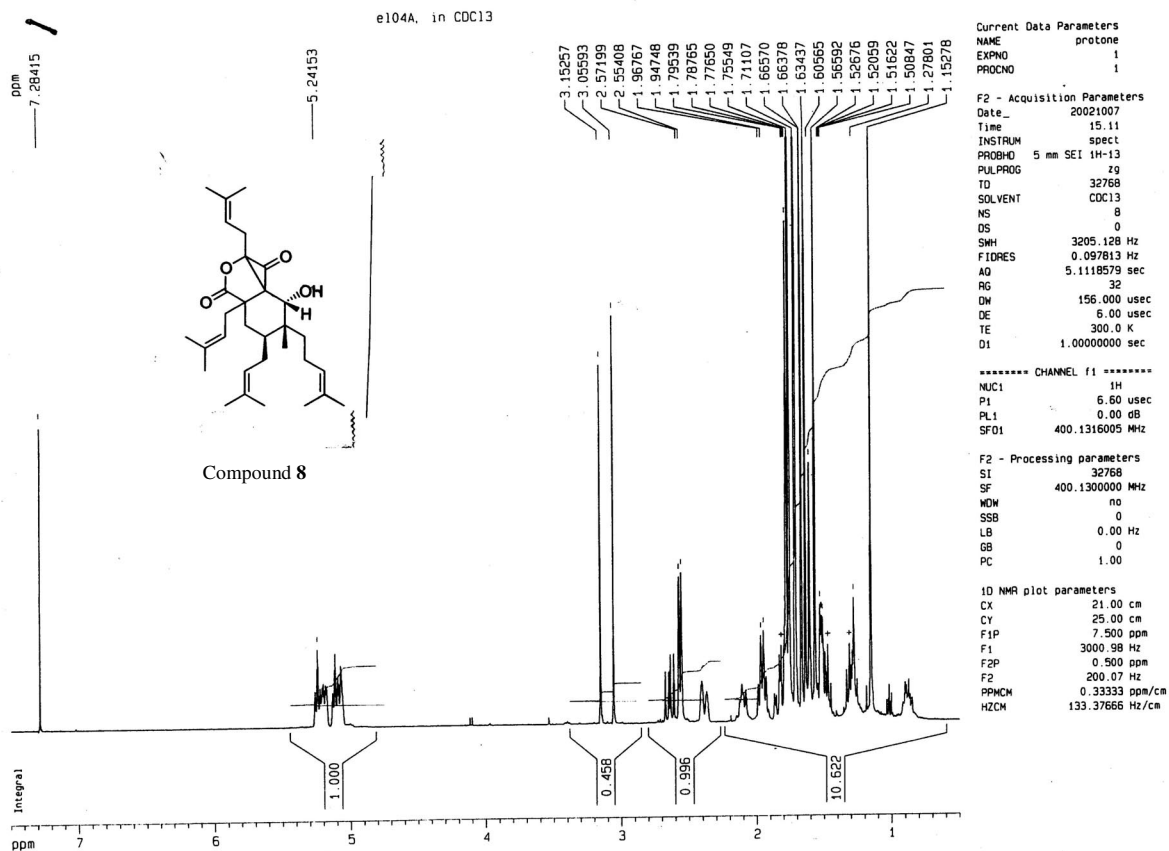
----- CHANNEL f2 -----  
CHOPPING2 waltz16  
NUC2 1H  
PCPD2 70.00 usec  
PL2 2.00 dB  
PL12 18.00 dB  
SFO2 500.2040000 MHz

F2 - Processing parameters  
SI 65536  
SF 125.7753968 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

1D NMR plot parameters  
CX 27.00 cm  
F1P 211.032 ppm  
F1 26542.69 Hz  
F2P 12.865 ppm  
F2 1619.08 Hz  
PPMCH 7.33254 ppm/cm  
HZCM 923.13373 Hz/cm

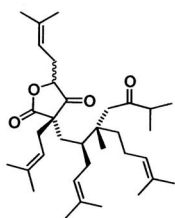






Current Data Parameters  
NAME LV-H202.002  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20021230  
Time 11.35  
INSTRUM drx500c  
PROBHD 5 mm BBI  
PULPROG zg30  
TD 64102  
SOLVENT CDCl3  
NS 8  
DS 2  
SMH 8012.856 Hz  
FIDRES 0.125002 Hz  
AQ 3.9999969 sec  
RG 128  
DM 62.400 usec  
DE 6.00 usec  
TE 300.0 K  
D1 0.00100000 sec



Compound 9

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 5.00 usec  
PL1 1.00 dB  
SFO1 500.263561 MHz

F2 - Processing parameters  
SI 131072  
SF 500.2603273 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 27.00 cm  
F1P 5.588 ppm  
F1 2794.97 Hz  
F2P 0.480 ppm  
F2 240.14 Hz  
PPHCH 0.18917 ppm/cm  
HZCH 94.62253 Hz/cm



Current Data Parameters  
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EXPNO 1  
PROCNO 1

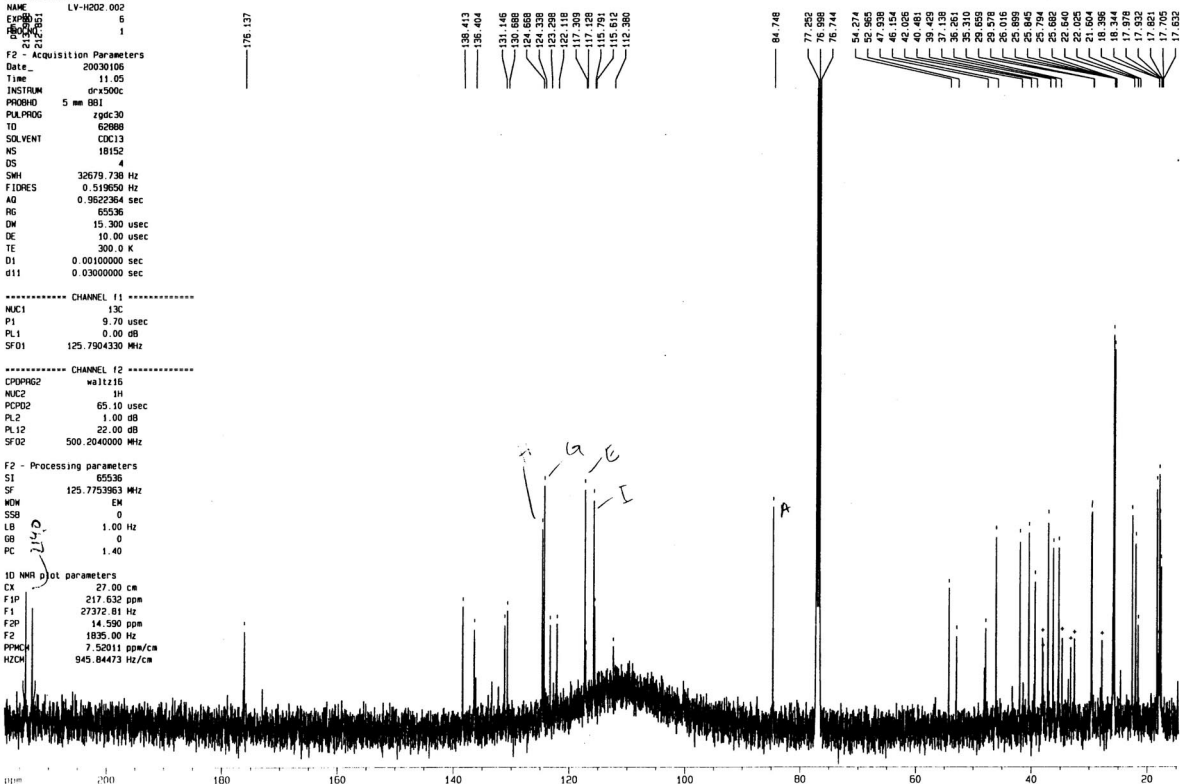
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PULPROG zgpg30  
TD 62888  
SOLVENT CDCl3  
NS 4  
DS 4  
SMH 32679.738 Hz  
FIDRES 0.519650 Hz  
AQ 0.3622364 sec  
RG 65536  
DM 15.300 usec  
DE 10.00 usec  
TE 300.0 K  
D1 0.00100000 sec  
d11 0.03000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 13C  
P1 9.70 usec  
PL1 0.00 dB  
SFO1 125.7904330 MHz

\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 65.10 usec  
PL2 1.00 dB  
PL12 22.00 dB  
SFO2 500.2640000 MHz

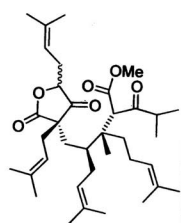
F2 - Processing parameters  
SI 65536  
SF 125.7753963 MHz  
WDW EK  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

1D NMR plot parameters  
CX 27.00 cm  
F1P 217.632 ppm  
F1 27372.81 Hz  
F2P 14.590 ppm  
F2 1835.00 Hz  
PPHCH 7.52011 ppm/cm  
HZCH 945.84473 Hz/cm



Current Data Parameters  
NAME LV-H202.006  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20030102  
Time 9.30  
INSTRUM dr5500c  
PROBHD 5 mm BBI  
PULPROG zg30  
TD 64102  
SOLVENT CDCl3  
NS 8  
DS 2  
SWH 8012.820 Hz  
FIDRES 0.125001 Hz  
AQ 4.0009148 sec  
RG 128  
DM 62.400 usec  
DE 6.00 usec  
TE 300.0 K  
D1 0.00100000 sec

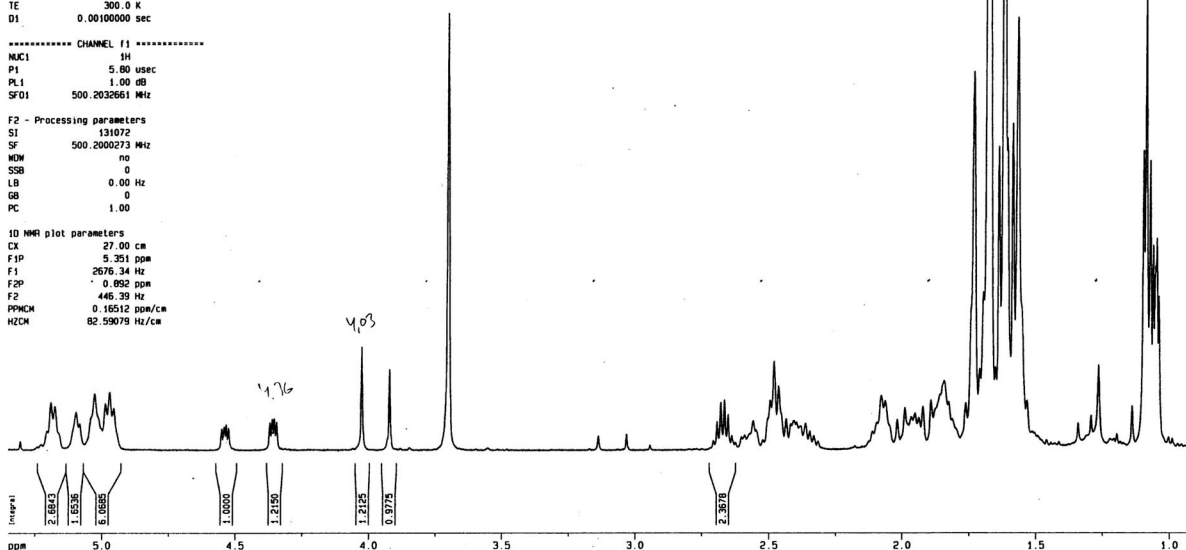


Compound 10

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 5.00 usec  
PL1 1.00 dB  
SFO1 500.2032661 MHz

F2 - Processing parameters  
SI 131072  
SF 500.2000273 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 27.00 cm  
F1P 5.351 ppm  
F1 2676.34 Hz  
F2P 0.892 ppm  
F2 446.39 Hz  
PPMCH 0.16512 ppm/cm  
HZCM 82.59079 Hz/cm



Current Data Parameters  
NAME LV-H202.006  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20021230  
Time 11.44  
INSTRUM dr5500c  
PROBHD 5 mm BBI  
PULPROG zgpg30  
TD 62888  
SOLVENT CDCl3  
NS 13283  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.519650 Hz  
AQ 0.9622364 sec  
RG 65536  
DM 15.300 usec  
DE 10.00 usec  
TE 300.0 K  
D1 0.00100000 sec  
d11 0.03000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 13C  
P1 9.70 usec  
PL1 0.00 dB  
SFO1 125.7904330 MHz

\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
CPDPRG2 waltz16  
NUC2 1H  
PCPD02 65.10 usec  
PL2 1.00 dB  
PL12 22.00 dB  
SFO2 500.2040000 MHz

F2 - Processing parameters  
SI 65536  
SF 125.7753958 MHz  
WDW EK  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

1D NMR plot parameters  
CX 27.00 cm  
F1P 215.937 ppm  
F1 27159.54 Hz  
F2P 14.389 ppm  
F2 1809.83 Hz  
PPMCH 7.46472 ppm/cm  
HZCM 938.87793 Hz/cm

