Supporting Information for

Alkynyliodonium Salts in Organic Synthesis. Development of a Unified Strategy for the Syntheses of (–)-Agelastatin A and (–)-Agelastatin B.

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Copies of ^1H and ^{13}C NMR for **1, 2, 11, 14, 17, 19, 22, 24, 25, 29, 31, 33, 34, 36, 39a-c, 40, 42, 43a, 45, 53, 54, and 55.**

JCS111232 low band from prep plate B, Agelastatin A

5.6mg

Current Data Param
NAME Joe12-
EXPNO
PROCNO

F2 - Acquisition F
Date_ 2002
Time
INSTRUM
PULPROG 5 mm QNP
PULPROG
TD
SOLVENT
NS
DS
SWH 746
FIDRES 0.5
AQ 4.98
RG
OW 6
DE
TE
X-1
D1 1.000
P1
SF01 360.13
NUCLEUS

F2 - Processing p
SI
SF 360.13
WDW
SSB
LB
GB
PC

1D NMR plot param
CX
F1P
F1 28
F2P
F2 -1
PUNCH 0
HZCM 149

Current Data P.
NAME
EXPNO
PROCNO

F2 - Acquisition
Date_ 2002
Time
INSTRUM
PULPROG 5 mm
PULPROG
TD
SOLVENT
NS
DS
SWH
FIDRES
AQ
RG
OW
DE
TE
D1 2.
D11 0.
D12 0.

NAME1
P1
PL1
SF01 75

NAME2
EXPNO2
NUC2
PULPROG2
PL2
PL12
PL13
SF02 299

F2 - Processing
SI
SF 75
WDW
SSB
LB
GB
PC

1D NMR plot param
CX
F1P
F1
F2
PUNCH
HZCM 6

JCSIII 27S agelastatin B 18.3mg

Current Data Parameters
NAME Joe5-B-02
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020508
Time 13.22
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TD 65536
SOLVENT MeOH
NS 32
DS 0
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 1024
DM 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

***** CHANNEL f1 *****
NUC1 1H
P1 11.70 usec
PL1 0.00 dB
SFO1 299.871515 MHz

F2 - Processing parameters
SI 32768
SF 299.8715150 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.000 ppm
F1 2398.97 Hz
F2P -0.300 ppm
F2 -89.96 Hz
PPHOM 0.41500 ppm/cm
HZCM 124.44655 Hz/cm

Current Data Parameters
NAME Joe5-B-02
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020509
Time 9.04
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT MeOH
NS 10056
DS 4
SWH 10832.293 Hz
FIDRES 0.287360 Hz
AQ 1.7400308 sec
RG 13004
DM 26.500 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.01000000 sec
d12 0.00002000 sec

***** CHANNEL f1 *****
NUC1 13C
PL1 -6.00 dB
SFO1 75.476200 MHz

***** CHANNEL f2 *****
CPDPRG2 waltz16
NUC2 1H
PCPD2 134.00 usec
PL2 -6.00 dB
PL12 18.00 dB
PL13 18.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4676415 MHz
WDW EW
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 170.000 ppm
F1 12829.50 Hz
F2P -5.000 ppm
F2 -377.34 Hz
PPHOM 8.75000 ppm/cm
HZCM 660.34192 Hz/cm

JCSII1230 prep plate product

Current Data Parameters
 NAME Jcs12-13-01
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20011213
 Time 4.46
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT MeOH
 NS 96
 DS 9
 SWH 7462.687 Hz
 FIDRES 0.113872 Hz
 AQ 4.3509621 sec
 RG 2048
 DW 67.000 usec
 DE 99.71 usec
 TE 300.0 K
 HL1 0 dB
 D1 1.00000000 sec
 P1 12.00 usec
 SFO1 360.1361620 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 32768
 SF 360.1354046 MHz
 WDW no
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 8.000 ppm
 F1 2881.08 Hz
 F2P -0.300 ppm
 F2 -108.04 Hz
 PPHCM 0.41500 ppm/cm
 MZCM 149.45819 Hz/cm

Current Data Parameters
 NAME Jcs13-30-02
 EXPNO 7
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20020330
 Time 6.06
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT MeOH
 NS 20711
 DS 4
 SWH 22727.273 Hz
 FIDRES 0.346791 Hz
 AQ 1.4418420 sec
 RG 32768
 DW 22.000 usec
 DE 31.43 usec
 TE 300.0 K
 HL1 0 dB
 D1 2.00000000 sec
 DPROG waltz16
 P31 106.00 usec
 S4 30 dB
 D11 0.03000000 sec
 S2 30 dB
 P1 7.50 usec
 SFO1 90.5582537 MHz
 NUCLEUS 13C

F2 - Processing parameters
 SI 32768
 SF 90.5582537 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 170.000 ppm
 F1 15394.52 Hz
 F2P -5.000 ppm
 F2 -452.78 Hz
 PPHCM 8.75000 ppm/cm
 MZCM 792.36487 Hz/cm

JCSII124 col B

Current Data Parameters
NAME Jcs1-B-02
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020108
Time 20.28
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TO 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 6172.839
FIDRES 0.094180
AQ 5.3084660
RG 114
DM 61.000
DE 6.00
TE 300.0
D1 1.00000000

***** CHANNEL f1
NUC1 1H
P1 11.70
PL1 0.00
SFO1 299.8718518

F2 - Processing parameters
SI 32768
SF 299.8700194
WDW no
SSB 0
LB 0.00
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00
F1P 8.000
F1 2308.96
F2P -0.300
F2 -89.96
PPHCH 0.41500
HZCM 124.44606

JCSII124 col B

Current Data Parameters
NAME Jcs1-B-02
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020109
Time 9.14
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TO 65536
SOLVENT CDCl3
NS 4
DS 4
SWH 18796.982 Hz
FIDRES 0.286815 Hz
AQ 1.7433076 sec
RG 1824.8
DM 26.800 usec
DE 6.00 usec
TE 300.0 K
D1 1.50000000 sec
D11 0.03000000 sec
D12 0.00002000 sec

***** CHANNEL f1 *****
NUC1 13C
P1 5.40 usec
PL1 -6.00 dB
SFO1 75.4106357 MHz

***** CHANNEL f2 *****
CPDPRG2 waltz16
NUC2 1H
PCPD2 115.00 usec
PL2 0.00 dB
PL12 20.00 dB
PL13 20.00 dB
SFO2 299.8711995 MHz

F2 - Processing parameters
SI 32768
SF 75.4023775 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 160.000 ppm
F1 12064.38 Hz
F2P -5.000 ppm
F2 -377.01 Hz
DOWW 8.36000000

JCSII1118 colB f8-13

Current Data Parameters

NAME Joe5-27-01
EXPNO 6
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010627
Time 22.56
INSTRUM spect
PROBHD 5 mm DB1 1H-8
PULPROG zg30
TD 65536
SOLVENT Aceton
NS 40
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9564243 sec
RG 362
DM 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

***** CHANNEL f1 *****

NUC1 1H
P1 6.38 usec
PL1 0.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters

SF 32768
SF 400.1300108 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters

CK 20.00 cm
F1P 8.000 ppm
F1 3201.04 Hz
F2P -0.300 ppm
F2 -120.04 Hz
PPHMM 0.41500 ppm/cm
H2CM 166.05396 Hz/cm

JCSII1118 col B f8-13

Ar Aliph
1 4 8

Current Data Parameters

NAME Joe12-31-01
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20020101
Time 10.04
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT Aceton
NS 10113
DS 4
SWH 18933.353 Hz
FIDRES 0.287360 Hz
AQ 1.7400308 sec
RG 8192
DM 20.500 usec
DE 6.00 usec
TE 300.0 K
D1 0.00000000 sec
D11 0.03000000 sec
D12 0.00002000 sec

***** CHANNEL f1 *****

NUC1 13C
P1 5.00 usec
PL1 -6.00 dB
SFO1 75.4762000 MHz

***** CHANNEL f2 *****

CPDPRG2 waltz16
NUC2 1H
PCPD2 114.00 usec
PL2 -6.00 dB
PL2 18.00 dB
PL13 18.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters

SF 32768
SF 75.4678847 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CK 20.00 cm
F1P 215.000 ppm
F1 16225.95 Hz
F2P -377.34 Hz
F2 -11.00000 ppm/cm
PPHMM 11.00000 ppm/cm
H2CM 830.14493 Hz/cm

MALII193

Current Data Parameters
 NAME Feb20-00-Felona
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000220
 Time 19.33
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TO 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 7452.687 Hz
 FIDRES 0.227743 Hz
 AQ 2.1955051 sec
 RG 4096
 DW 67.000 usec
 DE 95.71 usec
 TE 300.0 K
 HL1 0 dB
 D1 1.00000000 sec
 P1 12.60 usec
 SFO1 360.1361940 MHz
 NUC1 FUS 1H

F2 - Processing parameters
 S1 16384
 SF 360.1339834 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 11.000 ppm
 F1 3951.47 Hz
 F2P -1.000 ppm
 F2 -360.13 Hz
 PPMCH 0.80000 ppm/cm
 HZCM 216.08038 Hz/cm

Current Data Parameters
 NAME Feb20-00-Felona
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000220
 Time 19.36
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TO 65536
 SOLVENT CDCl3
 NS 14168
 DS 2
 SWH 29411.765 Hz
 FIDRES 0.448768 Hz
 AQ 1.1141820 sec
 RG 32768
 DW 17.000 usec
 DE 24.29 usec
 TE 300.0 K
 HL1 0 dB
 D1 2.00000000 sec
 CHOPRG waitz16
 P31 108.00 usec
 S4 30 dB
 D11 0.03000000 sec
 S2 30 dB
 P1 8.50 usec
 SFO1 90.5638242 MHz
 NUCLEUS 13C

F2 - Processing parameters
 S1 32768
 SF 90.5657236 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 215.000 ppm
 F1 19469.48 Hz
 F2P -5.000 ppm
 F2 -452.78 Hz
 PPMCH 11.00000 ppm/cm
 HZCM 996.11298 Hz/cm

Current Data Parameters
 NAME Feb21-00-Feldma
 EXPNO 20
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20090221
 Time 22.20
 INSTRUM spect
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT C6D6
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.189380 Hz
 AQ 2.6542580 sec
 RG 645.1
 DW 81.000 usec
 DE 5.00 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 9.80 usec
 SFO1 300.1316534 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300332 MHz
 WDW EM
 SSB 0
 LB 0.307 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.80000 ppm/cm
 HZCM 180.07802 Hz/cm

Current Data Parameters
 NAME Feb21-00-Feldma
 EXPNO 21
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20090221
 Time 22.23
 INSTRUM spect
 PROBHD 5 mm Multinu
 PULPROG zgpg30
 TD 65536
 SOLVENT C6D6
 NS 10936
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763051 sec
 RG 4095
 DW 21.000 usec
 DE 5.00 usec
 TE 300.0 K
 d11 0.03000000 sec
 d12 0.00000000 sec
 PL13 18.00 dB
 D1 2.00000000 sec
 CPDPRG2 waltz16
 PCPD2 114.00 usec
 SFO2 300.1312005 MHz
 NUC2 13C
 PL2 -6.00 dB
 PL12 18.00 dB
 P1 5.60 usec
 SFO1 75.4772501 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters
 SI 32768
 SF 75.4677024 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 215.000 ppm
 F1 16225.56 Hz
 F2P -5.000 ppm
 F2 -377.34 Hz
 PPMCM 11.00000 ppm/cm
 HZCM 830.14478 Hz/cm

JCSII147 19-15

Current Data Parameters
 NAME Joe6-B-00
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000608
 Time 9.20
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 7462.687 Hz
 FIDRES 0.227743 Hz
 AQ 2.1955061 sec
 RG 128
 DW 67.000 usec
 DE 95.71 usec
 TE 300.0 K
 HL1 0 dB
 D1 1.00000000 sec
 P1 12.50 usec
 SFO1 360.1361840 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 16384
 SF 360.1339925 MHz
 WDW no
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 5.000 ppm
 F1 2891.07 Hz
 F2P -0.100 ppm
 F2 -36.01 Hz
 PRMCM 0.40500 ppm/cm
 HZCM 145.85426 Hz/cm

JCSII147 19-15

FREQUENCY [Hz]	[PPM]	INTENSITY
13802.202	152.4166	0.92
13741.483	151.7461	1.17
13634.788	150.5679	1.22
11712.224	129.3371	7.09
11403.953	125.9329	3.61
10983.898	121.2943	7.62
7577.416	83.6768	2.01
7004.973	77.3553	1.99
6972.871	77.0008	2.12
6940.835	76.6471	1.99
4500.007	49.6932	4.58
4312.759	47.6255	3.20
4142.729	45.7478	4.05
2518.940	27.8165	12.50

Current Data Parameters
 NAME Joe6-B-00
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000608
 Time 9.28
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 264
 DS 2
 SWH 28411.786 Hz
 FIDRES 0.448788 Hz
 AQ 1.1141600 sec
 RG 32768
 DW 17.000 usec
 DE 24.29 usec
 TE 300.0 K
 HL1 0 dB
 D1 1.00000000 sec
 CPDPRG well1219
 P31 106.00 usec
 S4 30 dB
 D11 0.03000000 sec
 SP 30 dB
 P1 8.50 usec
 SFO1 90.5636242 MHz
 NUCLEUS 13C

F2 - Processing parameters
 SI 32768
 SF 90.5597225 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 150.000 ppm
 F1 14488.92 Hz
 F2P -5.000 ppm
 F2 -52.78 Hz
 PRMCM 8.25000 ppm/cm
 HZCM 747.08508 Hz/cm

Compound 121 II154

Current Data Parameters
NAME J001-9-02
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020109
Time 11.58
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 56
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 143.7
OW 81.000 usec
DE 8.00 usec
TE 300.0 K
D1 1.0000000 sec

***** CHANNEL f1 *****
NUC1 1H
P1 11.70 usec
PL1 0.00 dB
SFO1 299.6718518 MHz

F2 - Processing parameters
SI 32768
SF 299.6700070 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 0.000 ppm
F1 2390.56 Hz
F2P -0.300 ppm
F2 -89.56 Hz
PPMCM 0.41500 ppm/cm
HZCM 124.44805 Hz/cm

Compound 121 II154

Current Data Parameters
NAME J001-9-02
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020109
Time 2.02
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 469
DS 4
SWH 22727.273 Hz
FIDRES 0.346791 Hz
AQ 1.4419420 sec
RG 32768
OW 22.000 usec
DE 31.43 usec
TE 300.0 K
D1 1.50000000 sec
C1P1P1 11.115
P31 100.00 usec
S4 30 dB
D11 0.03000000 sec
S2 30 dB
P1 7.50 usec
SFO1 90.5658959 MHz
NUC1FUS 13C

F2 - Processing parameters
SI 32768
SF 90.5557773 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 150.000 ppm
F1 144680.93 Hz
F2P -5.000 ppm
F2 -452.78 Hz
PPMCM 8.25000 ppm/cm
HZCM 747.08514 Hz/cm

JCSII1214 more polar cpd. ppt

Current Data Parameters

NAME Joe9-19-00
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20000919
Time 11.10
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 228.1
OH 81.000 usec
OE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

***** CHANNEL f1 *****

NUC1 1H
P1 11.70 usec
PL1 0.00 dB
SFO1 299.8710518 MHz

F2 - Processing parameters

SF 32768
SF 299.8700087 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 20.00 cm
FJP 9.000 ppm
F1 2698.83 Hz
F2 -0.100 ppm
F2 -29.99 Hz
PRMCH 0.45500 ppm/cm
HZCM 136.44086 Hz/cm

BrNc1ccc(cc1)C(=O)O[C@H]2[C@@H](C(=O)Nc3ccc(cc3)S(=O)(=O)c4ccccc4)[C@H](C(=O)Nc5ccc(cc5)S(=O)(=O)c6ccccc6)[C@H](C(=O)Nc7ccc(cc7)S(=O)(=O)c8ccccc8)C2
 36

```

F2 - Acquisition Parameters
Date_      20011227
Time       18.37
INSTRUM    spect
PROBHD     5 mm QNP 1H/1
PULPROG    zg30
TD         85536
SOLVENT    CDCl3
NS         32
DS         0
SWH         6172.839 Mz
FIDRES     0.094190 Mz
AQ         5.3084660 sec
RG         256
DN         81.000 usec
DE         6.00 usec
TE         300.0 K
D1         1.00000000 sec

```

```
***** CHANNEL #1 *****
NUC1          1H
P1             11.70 usec
PL1            0.00 dB
SFO1          299.8718518 MHz
```

F2 - Processing parameters	
SI	32768
SF	299.8700138 MHz
WDM	RD
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

1D NMR plot parameters	
CX	20.00 cm
F1P	9.000 ppm
F1	2698.83 Hz
F2P	-0.300 ppm
F2	-89.96 Hz
PPHCH	0.46500 ppm/cm
KZCM	139.43956 Hz/cm

```
Current Data Parameters
NAME          Joe12-27-01
EXPNO         4
PROCNO        1
```

```

F2 - Acquisition Parameters
Date_... 20011228
Time 10.39
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 15360
DS 4
SWH 18756.992 Hz
FIDRES 0.265819 Hz
AQ 1.7433676 sec
RG 3251
DW 26.605 use
DE 5.00 use
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
D12 0.00000000 sec

```

```
***** CHANNEL f1 *****
NUC1          13C
P1             5.40 usec
PL1           -8.00 dB
SFQ1          75.4106367 Mhz
```

```
***** CHANNEL 12 *****
CPOPRG2      wbl1215
NUC2          5M
PCP02        115.00 us/c
PL2           0.00 dB
PL12          20.00 dB
PL13          20.00 dB
SF02         299.8711995 MHz
```

F2 - Processing parameters	
SI	32768
SF	75.4023660 MHz
NDW	DW
SSB	0
LB	1.00 Hz
GB	0
PC	0.01

1D NMR plot parameters	
CX	20.00 cm
F1P	150.000 ppm
F1	12064.38 Hz
F2P	-5.000 ppm
F2	-377.01 Hz
PRMCM	8.25000 ppm/cm
HZCM	622.05952 Hz/cm

JCSII272 combined high main compound

Current Data Parameters
NAME Jcs12-15-00
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20001215
Time 13.04
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TO 65536
SOLVENT CDCl3
NS 16
DS 8
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 32
DN 81.000 usec
DE 6.00 usec
TE 300.2 K
D1 1.0000000 sec

***** CHANNEL f1 *****
NUC1 1H
P1 11.70 usec
PL1 0.00 dB
SFO1 299.8718518 MHz

F2 - Processing parameters
SI 32768
SF 299.8700000 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.000 ppm
F1 2398.95 Hz
F2P -0.100 ppm
F2 -29.99 Hz
PPMCH 0.40500 ppm/cm
HZCM 121.44735 Hz/cm

JCSII272 Main product

Current Data Parameters
NAME Jcs12-15-00
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20001215
Time 13.09
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TO 65536
SOLVENT CDCl3
NS 16
DS 8
SWH 18785.882 Hz
FIDRES 0.208819 Hz
AQ 1.7433076 sec
RG 2048
DN 26.600 usec
DE 6.00 usec
TE 300.2 K
D1 1.5000000 sec
d11 0.0300000 sec
d12 0.0000000 sec

***** CHANNEL f1 *****
NUC1 13C
P1 5.40 usec
PL1 -6.00 dB
SFO1 75.4100357 MHz

***** CHANNEL f2 *****
CPDPRG2 waltz16
NUC2 1H
PCPD2 115.00 usec
PL2 0.00 dB
PL12 20.00 dB
PL13 20.00 dB
SFO2 299.8719995 MHz

F2 - Processing parameters
SI 32768
SF 75.4023750 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 170.000 ppm
F1 12818.40 Hz
F2P -5.000 ppm
F2 -37.01 Hz
PPMCH 8.75000 ppm/cm
HZCM 659.77081 Hz/cm

JCSIII68B column product

Current Data Parameters
NAME Joe4-1
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 2001
Time 5
INSTRUM 5 mm QNP
PROBHD 5 mm QNP
PULPROG 6
TD 6
SOLVENT C
NS 7452
DS 0.11
FIDRES 4.350
AQ 87
RG 9
DE 3
TE 1.0000
D1 1
P1 360.136
SFO1
NUCLEUS

F2 - Processing parameters
SI 3
SF 360.137
WDW
SSB
LB
GB
PC

1D NMR plot parameters
CX 2
F1 8
F2 268
F3 -10
PPMCH 0.4
HZCM 149.4

JCSIII68B column product

Current Data Parameters
NAME Joe4-11-01
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010411
Time 2.46
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 73
DS 0
SWH 22727.273 Hz
FIDRES 0.346791 Hz
AQ 1.4418420 sec
RG 32768
DW 22.000 usec
DE 31.43 usec
TE 300.0 K
HL1 0 dB
D1 2.0000000 sec
CPDPRG waltz16
P31 105.00 usec
S4 30 dB
D11 0.0300000 sec
S2 30 dB
P1 7.90 usec
SFO1 90.5658969 MHz
NUCLEUS 13C

F2 - Processing parameters
SI 32768
SF 90.5557551 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1 170.000 ppm
F2 15394.48 Hz
F3 -10.000 ppm
F4 -905.56 Hz
PPMCH 9.00000 ppm/cm
HZCM 815.00183 Hz/cm

Current Data Parameters

NAME Jcs4 18-01
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010418
Time 1:50
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 7462.687 Hz
FIDRES 0.113872 Hz
AQ 4.3909821 sec
RG 256
DM 67.000 usec
DE 59.71 usec
TE 300.0 K
HL1 0 dB
D1 1.00000000 sec
P1 12.00 usec
SFO1 360.1361620 MHz
NUCLEUS 1H

F2 - Processing parameters

SI 32768
SF 360.1339879 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters

EX 20.00 cm
F1P 8.000 ppm
F1 2881.07 Hz
F2P -0.300 ppm
F2 -108.04 Hz
PWHM 0.41500 ppm/cw
HZCM 149.45561 Hz/cw

Current Data Parameters
NAME JoeB-18-00
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090818
Time 13.24
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg30
TD 32768
SOLVENT C6D6
NS 16
DS 2
SWH 7462.687 Hz
FIDRES 0.227743 Hz
AQ 2.1955051 sec
RG 512
OW 67.000 usec
DE 95.71 usec
TE 300.0 K
H1 0 dB
D1 1.00000000 sec
P1 12.60 usec
SF01 360.1361796 MHz
NUCLEUS 1H

F2 - Processing parameters
SI 16384
SF 360.1340017 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 0.000 ppm
F1 2681.07 Hz
F2P -0.100 ppm
F2 -35.01 Hz
PPMCM 0.40500 ppm/cm
HZCM 145.85428 Hz/cm

Current Data Parameters
NAME JoeB-18-00
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090818
Time 13.30
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zgpg30
TD 65536
SOLVENT C6D6
NS 453
DS 2
SWH 29411.755 Hz
FIDRES 0.448758 Hz
AQ 1.1141620 sec
RG 32768
OW 17.000 usec
DE 24.29 usec
TE 300.0 K
H1 0 dB
D1 2.00000000 sec
CPDPRG waltz16
P31 106.00 usec
S4 30 dB
D11 0.03000000 sec
S2 30 dB
P1 8.50 usec
SF01 90.5638206 MHz
NUCLEUS 13C

F2 - Processing parameters
SI 32768
SF 90.5557399 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 150.000 ppm
F1 14489.92 Hz
F2P -1.000 ppm
F2 -50.56 Hz
PPMCM 8.05000 ppm/cm
HZCM 728.97369 Hz/cm

43a

S21

JCSIII134 column product

Current Data Parameters
NAME Jcs7-25-01
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010725
Time 5.43
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 7462.687 Hz
FIDRES 0.113872 Hz
AQ 4.396921 sec
RG 256
DM 67.000 usec
DE 95.71 usec
TE 300.0 K
HL1 0 dB
D1 1.00000000 sec
H1 12.00 usec
SF01 360.1361620 MHz
NUCLEUS 1H

F2 - Processing parameters
SI 32768
SF 360.1339822 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 9.000 ppm
F1 3241.21 Hz
F2P -0.300 ppm
F2 -100.04 Hz
PPM0 0.46500 ppm/cm
HZCM 167.46230 Hz/cm

JCSIII261 column product

Current Data Parameters
NAME Joe3-21-02
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020321
Time 15.00
INSTRUM spect
PROBHD 5 mm BBI 1H-8
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8070.146 Hz
FIDRES 0.18314 Hz
AQ 3.9984243 sec
RG 45.3
DM 60.400 usec
DE 5.00 usec
TE 300.0 K
D1 1.00000000 sec

----- CHANNEL f1 -----
NUC1 1H
P1 6.20 usec
PL1 0.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300051 MHz
WDW rc
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 9.000 ppm
F1 3501.17 Hz
F2P -0.300 ppm
F2 -120.04 Hz
PRCM 0.46500 ppm/cm
HZCM 186.06046 Hz/cm

JCSIII261 column product

Current Data Parameters
NAME Joe3-21-02
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020321
Time 15.42
INSTRUM spect
PROBHD 5 mm BBI 1H-8
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 745
DS 4
SWH 25125.629 Hz
FIDRES 0.389387 Hz
AQ 1.3642154 sec
RG 16384
DM 19.900 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00020000 sec

----- CHANNEL f1 -----
NUC1 13C
P1 16.15 usec
PL1 -6.00 dB
SFO1 100.6237559 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 113.00 usec
PL2 0.00 dB
PL12 24.00 dB
PL13 24.00 dB
SFO2 400.1318605 MHz

F2 - Processing parameters
SI 32768
SF 100.6127781 MHz
WDW EN
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 20.000 ppm
F1 22134.81 Hz
F2P -5.000 ppm
F2 -503.07 Hz
PRCM 11.25000 ppm/cm
HZCM 1131.89380 Hz/cm