SUPPORTING INFORMATION

FOR

The Application of Intramolecular Enyne Metathesis to the Synthesis of Aza[4.2.1]bicyclics: Enantiospecific Total Synthesis of (+)-Anatoxin-a

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IIJ8a7

expl s2pul

SAMPLE		DEC. & VT	
date	Aug 1 2003	dfrq	439.351
solvent	DMSO	dn	30
file	exp	dwr	30
ACQUISITION		dof	0
tn	199.353	nm	nm
at	4.865	dm	200
np	89888	dseq	200
sw	9237.9	dres	1.0
fb	5000	homo	n
bs	32	temp	27.0
tpwr	54	PROCESSING	
pw	2.0	lb	0.10
di	2.000	wtfile	ft
tor	1123.4	proc	not used
ci	64	fn	
clock	64	math	
gain	40	werr	n
l1	n	wexp	n
in	n	wbs	n
dp	y	wnt	
hs	nm	wft	
DISPLAY			
sp	-249.7		
wp	5243.0		
vs	356		
sc	0		
wc	250		
hzm	20.97		
ls	1589.94		
rfl	2243.3		
rfp	1243.4		
th	1		
ins	1.000		
al	cdc	ph

TEMP = 373K

Current Data Parameters
NAME 111JB4B
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date 830702
Time 11.12
PULPROG 29
SOLVENT DMSO-d6
AQ 2.6214600 sec
FIDRES 0.190735 Hz
AQ 90.0 usec
RG 128
NUCLEUS 1H
HL1 3 dB
D1 2.0000000 sec
P1 2.0 usec
DE 100.0 usec
SF01 499.8797062 MHz
SMH 6250.00 Hz
TD 32768
NS 32
DS 2

F2 - Processing parameters
SI 32768
SF 499.8772179 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 0.70

1D NMR plot parameters
CX 20.00 cm
F1P 10.000 ppm
F1 4998.77 Hz
F2P -0.500 ppm
F2 -249.94 Hz
PPMCM 0.52500 ppm/cm
HZCM 262.43555 Hz/cm

TEMP = 373K

Current Data Parameters
 NAME 111J643
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 830912
 Time 10.31
 PULPROG zg
 SOLVENT DMSO-d6
 AQ 2.6542280 sec
 FIDRES 0.188380 Hz
 DW 81.0 usec
 RG 128
 NUCLEUS 1H
 HL1 3 dB
 D1 2.0000000 sec
 P1 2.0 usec
 DE 101.3 usec
 SF01 499.8798040 MHz
 SWH 5172.84 Hz
 TD 32768
 NS 32
 DS 2

F2 - Processing parameters
 SI 32768
 SF 499.8772180 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 10.000 ppm
 F1 4998.77 Hz
 F2P -0.500 ppm
 F2 -249.94 Hz
 PP4CM 0.52500 ppm/cm
 HZCM 262.43555 Hz/cm

TEMP = 373K

Current Data Parameters
 NAME j11JB60
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 830820
 Time 9.54
 PULPROG zg
 SOLVENT DMSO-d6
 AQ 2.6542280 sec
 FIDRES 0.168360 Hz
 DW 81.0 usec
 RG 128
 NUCLEUS 1H
 HL1 3 dB
 D1 2.000000 sec
 P1 2.0 usec
 DE 101.3 usec
 SF01 499.8798040 MHz
 SWH 6172.84 Hz
 TD 32768
 NS 32
 DS 2

F2 - Processing parameters
 SI 32768
 SF 499.8772178 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 10.000 ppm
 F1 4998.77 Hz
 F2P -0.500 ppm
 F2 -249.94 Hz
 PPMCM 0.52500 ppm/cm
 HZCM 262.43555 Hz/cm

TEMP = 373K

Current Data Parameters
NAME 111J662
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date 830825
Time 9.50
PULPROG zg
SOLVENT DMSO-d6
AQ 2.6542280 sec
FIDRES 0.188380 Hz
DQ 81.0 usec
RG 128
NUCLEUS 1H
HL1 3 dB
D1 2.0000000 sec
P1 2.0 usec
DE 101.3 usec
SF01 499.8798040 MHz
SWH 6172.84 Hz
TD 32768
NS 32
DS 2

F2 - Processing parameters
SI 32768
SF 499.8772178 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 10.000 ppm
F1 4998.77 Hz
F2P -0.500 ppm
F2 -249.94 Hz
PPMCM 0.52500 ppm/cm
HZCM 262.43555 Hz/cm

IIIJ0195
temp = 100c
exp1 s2pul

date	Oct 27 2003	DEC. & VT
solvent	DMSO	dn
file	exp	dpr
ACQUISITION	exp	dof
sfrq	499.870	dm
tn	H1	nnn
at	3.996	dm
np	73980	dseq
sw	9256.0	dres
fb	not used	homo
bs	32	temp
twr	57	temp
pw	2.0	lb
dt	2.000	wfile
ref	1124.6	proc
ct	64	in
alock	64	math
gain	10	werr
fl	n	wexp
dp	n	wnt
hs	y	wft
nn		
DISPLAY		
sp	-250.0	
wp	5248.5	
vs	3370	
sc	0	
wc	250	
hzmm	20.99	
ls	39733.58	
rfl	2356.8	
rtp	1244.7	
th	1	
ins	1.000	
at	ph

IIIJB56

Pulse Sequence: s2pu1

Solvent: CDCl3

Ambient temperature

Mercury-40056 "nmr6"

Relax. delay 2.000 sec

Pulse 15.9 degrees

Acq. time 2.856 sec

Width 5602.2 Hz

64 repetitions

OBSERVE H1, 400.2663784 MHz

DATA PROCESSING

Line broadening 0.1 Hz

FT size 32768

Total time 0 min, 0 sec

IIJ8295
F#23-50

Pulse Sequence: s2pul1

Solvent: CDCl3

Ambient temperature

Mercury-400BB "nmr5"

Relax. delay 2.000 sec

Pulse 15.9 degrees

Acq. time 2.856 sec

Width 5602.2 Hz

64 repetitions

OBSERVE H1, 400.2669858 MHz

DATA PROCESSING

Line broadening 0.1 Hz

FT size 32768

Total time 5 min, 21 sec

anatoxin a HCl

exp1 s2pu1

SAMPLE		DEC. & VT	
date	Sep 15 2003	dfrq	499.349
solvent	CDCl3	dn	H1
file		dpwr	30
		dof	0
ACQUISITION			
sfrq	499.350	nm	nm
in	H1	dm	C
at	4.865	dmc	200
ap	93358	dseq	
sp	923703	pres	1.0
fb	3009	romo	
bs	32	temp	27.0
tpwr	54	PROCESSING	
pw	2.0	lb	0.10
d1	2.000	wfile	
tof	1123.4	proc	ft
nt	64	fn	not used
ct	64	math	f
alock	n	werr	
gain	40	wexp	
FLAGS		wbs	
il	n	wnt	wft
in	n		
dp	y		
hs	nn		
DISPLAY			
sp	-249.7		
wp	6241.8		
vs	156		
sc	0		
h2mm	25.97		
is	2115.13		
rfl	4534.5		
rfo	3615.3		
th	1		
ins	1.000		
ai	cdc	ph