CuI Catalyzed Domino Process to 2,3-Disubstituted Benzofurans from 1-Bromo-2-iodobenzenes and β -Keto Esters

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Supporting Information

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LB 13.2

1.13.13-40

L-8

LE 13-SK-1

Current Data Parameters

NAME	C13
EXPNO	5
PROCNO	1

F2 - Acquisition Parameters

Date_	20061124
Time	3.38
INSTRUM	gxy400
PROBHD	5 mm DNP 13C
PULPROG	zgpg
TD	65536
SOLVENT	DMSO
NS	200
DS	0
SWH	35211.270 Hz
FIDRES	0.537281 Hz
AQ	0.9306512 sec
RG	4096
DM	14.200 usec
DE	6.00 usec
TE	300.0 K
D1	2.00000000 sec
d11	0.03000000 sec

===== CHANNEL f1 =====

NUC1	¹³ C
P1	6.00 usec
PL1	-6.00 dB
SFO1	100.6241470 MHz

===== CHANNEL f2 =====

CPDPRG2	waltz16
NUC2	¹ H
PCPD2	85.00 usec
PL2	120.00 dB
PL12	20.00 dB
SFO2	400.1319180 MHz

F2 - Processing parameters

SF	32768
SI	100.6127669 MHz
MDM	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	20.00 cm
F1P	200.000 ppm
F1	20132.55 Hz
F2P	0.000 ppm
F2	0.00 Hz
PRMCK	10.00000 ppm/cm
-f7cm	1006.12769 Hz/cm

LB 13-42-2

Current Data Parameters
NAME c13
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20061124
Time 3.03
INSTRUM drx400
PROBHD 5 mm QNP 13C
PULPROG zgpgc
TO 65536
SOLVENT DMSO
NS 280
DS 0
SWH 35211.270 Hz
FIDRES 0.537281 Hz
AQ 0.930612 sec
RG 4096
DM 14.200 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SF01 100.6241470 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 85.00 usec
PL2 120.00 dB
PL12 20.00 dB
SF02 400.1319180 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

10 NMR Plot Parameters
CX 20.00 cm
F1P 200.000 ppm
F1 20122.55 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCH 10.00000 ppm/cm
HZCH 1006.12769 Hz/cm

Current Data Parameters

NAME	C13
EXPNO	5
PROCNO	1

F2 - Acquisition Parameters

Date_	20061124
Time	2.42
INSTRUM	dp400
PROBHD	5 mm QNP 13C
PULPROG	zgpg30
TD	65536
SOLVENT	DMSO
NS	380
DS	0
SWH	35211.270 Hz
FIDRES	0.537281 Hz
AQ	0.930612 sec
RG	4096
DM	14.200 usec
DE	6.00 usec
TE	300.0 K
D1	2.0000000 sec
d11	0.0300000 sec

===== CHANNEL f1 =====

NUC1	13C
P1	6.00 usec
PL1	-6.00 dB
SFO1	100.624470 MHz

===== CHANNEL f2 =====

CPDPRG2	waltz16
NUC2	1H
PCPD2	85.00 usec
PL2	120.00 dB
PL12	20.00 dB
SFO2	400.1319180 MHz

F2 - Processing parameters

SF	32768
SF	100.6127679 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	20.00 cm
F1P	200.000 ppm
F1	20122.55 Hz
F2P	0.000 ppm
F2	0.00 Hz
PPMCM	10.00000 ppm/cm
HZCM	1006.12769 Hz/cm

LB13-

LE13-13-1
 11 12

spec: CDCl₃,
F1: 300.132
F2: 75.30

SWH: 6173
PW: 10.2 usec

PD: 2.0 sec

OF1: 1848.7
NA: 8

LB: 0.0

USER: sloc -- DATE: Thu Dec 21 01:36:09 2
PTSId: 16384

WinNMR - \$J

LB17-76-

LB 12

ORTEP plot of benzofuran **6b**