Supplementary Material

Bioinspired stereoselective synthesis of chiral 2,5-diaryl-3,4-
dimethyltetrahydrofurans from unprotected 1,4-diarylbutane-1,4-diols

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$^1$H NMR spectrum of 6 (400 MHz, CDCl$_3$)

$^{13}$C NMR spectrum of 6 (100 MHz, CDCl$_3$)
$^1$H NMR spectrum of 7 (400 MHz, CDCl$_3$)

(1R,2R,3R)-7

$^{13}$C NMR spectrum of 7 (100 MHz, CDCl$_3$)

(1R,2R,3R)-7
$^1$H NMR spectrum of 8 (400 MHz, CDCl$_3$)

$^{13}$C NMR spectrum of 8 (100 MHz, CDCl$_3$)
$^1$H NMR spectrum of 9a (400 MHz, acetone-$d_6$)

$^{13}$C NMR spectrum of 9a (100 MHz, acetone-$d_6$)
1H NMR spectrum of 9b (400 MHz, acetone-\(d_6\))

(1S,2S,3R,4R)-9b

13C NMR spectrum of 9b (100 MHz, acetone-\(d_6\))

(1S,2S,3R,4R)-9b


$^1$H NMR spectrum of 1a (400 MHz, acetone-$d_6$)

(1R,2S,3R,4R)-1a

$^{13}$C NMR spectrum of 1a (100 MHz, acetone-$d_6$)

(1R,2S,3R,4R)-1a
$^1$H NMR spectrum of 1b (400 MHz, acetone-$d_6$)

$^{13}$C NMR spectrum of 1b (100 MHz, acetone-$d_6$)
$^1$H NMR spectrum of 3a (400 MHz, acetone-$d_6$)

$^{13}$C NMR spectrum of 3a (100 MHz, acetone-$d_6$)

(2S,3S,4R,5R)-3a
NOESY of 3a
H NMR spectrum of 10 (400 MHz, acetone-$d_6$)

(2S,3S,4R,5R)-10

$^{13}$C NMR spectrum of 10 (100 MHz, acetone-$d_6$)

(2S,3S,4R,5R)-10
DEPT-135 NMR spectrum of 10 (100 MHz, acetone-$d_6$)

HMBC of 10
NOESY of 10