Supporting Information for:

Base-promoted lipase-catalyzed kinetic resolution of atropisomeric 1,1'-biaryl-2,2'-diols

Gamal A. I. Moustafa,^{a,b} Kengo Kasama,^a Koichi Higashio,^a and Shuji Akai*^a

^aGraduate School of Pharmaceutical Sciences, Osaka University, 1-6 Yamadaoka, Suita, Osaka 565-0871, Japan. ^bDepartment of Medicinal Chemistry, Faculty of Pharmacy, Minia University, Minia 61519, Egypt.

E-mail: akai@phs.osaka-u.ac.jp.

Contents

NMR spectra and HPLC charts of racemic and enantioenriched compounds......S2-S59



¹H NMR spectrum (500 MHz, CDCl₃) of (R)-2a



¹H NMR spectrum (500 MHz, CDCl₃) of (S)-1a



S4





¹H NMR spectrum (500 MHz, CDCl₃) of (R)-**2b**



¹³C NMR spectrum (100 MHz, CDCl₃) of (*R*)-**2b**



¹H NMR spectrum (500 MHz, CDCl₃) of (S)-1b







¹H NMR spectrum (400 MHz, CDCl₃) of (R)-2c



¹³C NMR spectrum (100 MHz, CDCl₃) of (R)-**2**c



¹H NMR spectrum (400 MHz, CDCl₃) of (S)-1c







¹H NMR spectrum (400 MHz, CDCl₃) of (R)-2d



¹H NMR spectra (400 MHz, CDCl₃) of (S)-1d



S18





¹H NMR spectrum (400 MHz, CDCl₃) of (R)-2e



¹³C NMR spectrum (100 MHz, CDCl₃) of (*R*)-2e



¹H NMR spectrum (400 MHz, CDCl₃) of (*S*)-1e







¹H NMR spectrum (500 MHz, CDCl₃) of (R)-1g



¹H NMR spectrum (500 MHz, CDCl₃) of (S)-1g



¹³C NMR spectrum (125 MHz, CDCl₃) of (S)-1g





¹H NMR spectra (400 MHz, CDCl₃) of (*R*)-**2h**



¹H NMR spectrum (400 MHz, CDCl₃) of (R)-1h

¹H NMR spectrum (400 MHz, CDCl₃) of (S)-1

¹H NMR spectrum (500 MHz, CDCl₃) of (R)-**2i**

¹H NMR spectrum (400 MHz, CDCl₃) of (*R*)-1i

¹H NMR spectrum (400 MHz, CDCl₃) of (S)-1i

¹H NMR spectrum (500 MHz, CDCl₃) of (R)-**2**j

¹H NMR spectrum (500 MHz, CDCl₃) of (R)-1j

¹H NMR spectrum (500 MHz, CDCl₃) of (S)-1j

¹H NMR spectrum (500 MHz, CDCl₃) of (R)-1k

¹H NMR spectrum (500 MHz, CDCl₃) of (R)-1k

¹³C NMR spectrum (100 MHz, CDCl₃) of (*R*)-1k

¹H NMR spectrum (400 MHz, CDCl₃) of (*S*)-1k

¹³C NMR spectrum (100 MHz, CDCl₃) of (S)-1k

¹H NMR spectrum (500 MHz, CDCl₃) of (*R*)-**5**a

¹³C NMR spectrum (125 MHz, CDCl₃) of (*R*)-5a

¹H NMR spectrum (400 MHz, CDCl₃) of (S)-4a

¹³C NMR spectrum (100 MHz, CDCl₃) of (S)-4a

¹H NMR spectrum (400 MHz, CDCl₃) of (R)-**5b**

¹³C NMR spectrum (100 MHz, CDCl₃) of (*R*)-**5b**

¹H NMR spectrum (400 MHz, CDCl₃) of (S)-4b

¹³C NMR spectrum (100 MHz, CDCl₃) of (S)-4b

