Supporting Information for the Manuscript

Nonracemic Betti base as a new chiral auxiliary:

Application to total syntheses of enantiopure

(2*S*,6*R*)-dihydropinidine and (2*S*,6*R*)-isosolenopsins

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General Information: The ¹H NMR spectra were recorded on a JOEL JNM-ECA 300 Mz spectrometer with TMS as internal reference. The MS spectra were obtained on a VG-ZAB-HS mass spectrometer with 70 eV. Optical rotations were determined on a Perkin-Elmer 343 polarimeter.

List of ^{13}C NMR, ^1H NMR and DEPT spectra for compounds 4, 5, and 7a-j.HCl.

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WXY-0411-02-C-01-single_pulse_dec.3
single pulse decoupled gated NOE

xy-0411-02-H-01-single_pulse.4
single_pulse

4

X : parts per Million : 1H

wxy-040319-C-single_pulse_dec.3
single pulse decoupled gated NOE

5

X : parts per Million : 13C

wxy-040406-C-01-single_pulse_dec.3
single pulse decoupled gated NOE

X : parts per Million : 13C

wxy-040406-H-01-single_pulse.3
single_pulse

wxy-040406-01-dept-3
DEPT with decoupling

wxy-0404-C-01-single_pulse_dec.3
single pulse decoupled gated NOE

wxy-0404-C-01-single_pulse_dec.3
single pulse decoupled gated NOE

X : parts per Million : 13C

wxy-040402-H-01-single_pulse.3
single_pulse

0.80322
0.86485

0.89402
0.96157

0.83144
1.93463
2.56459
3.15445

12.85842

3

wxy-040404-01-dept.3
DEPT with decoupling

WXY-040404-01-dept.3
DEPT with decoupling

X : parts per Million : 13C

WVY-040405-C-01—single pulse dec.3
single pulse decoupled gated NOE

WVY-040405-C-01—single pulse dec.3
single pulse decoupled gated NOE

X : parts per Million : 13C

wxy-040405-01-dept4
DEPT with decoupling

wxy-040410-C-01-single pulse dec-4
single pulse decoupled gated NOE

wxy-040410-C-01-single pulse dec-4
single pulse decoupled gated NOE

X : parts per Million : 13C

wxy-040410-H-01-single_pulse.5
single_pulse

CCCCCCCCCCCCN1CCCCC1C

7d

way-44345-C-01-single_pulse_dec.6
single_pulse_decimated_rate0.500

7e

X : parts per Million : 13C

CN(C)CCCCC1CCCCC1

X : parts per Million : 13C

slw-040105-H-single_pulse.3
single_pulse

sjw-040524-C-1-single_pulse_dec.2
single pulse decoupled gated NOE

sjw-040524-H-1-single_pulse.2
single_pulse

slw-040519-C-1-single_pulse_dec.2
single pulse decoupled gated NOE

slw-040519-II-1-single_pulse.2
single_pulse