**SUPPORTING
INFORMATION**

S1

Revised

**Synthesis of Functionally Diverse and Conformationally
Constrained Polycyclic Analogues of Proline and Prolinol**

**Stephen Hanessian,* Gianluca Papeo, Mauro Angiolini, Kamal Fettis,
Marco Beretta, and (in part) Alexander Munro**

*Department of Chemistry, Université de Montréal, C. P. 6128, Succ. Centre-Ville,
Montréal, P. Q., CANADA, H3C 3J7. Email: stephen.hanessian@umontreal.ca*

Received Month XX, 2003

Supporting Information

General experimental section (1 page)

^1H NMR and ^{13}C NMR of selected compounds (26 pages)

General information

Solvents were distilled under positive pressure of dry argon before use and dried by standard methods: toluene from sodium; THF and ether from sodium/benzophenone ketyl; CH_2Cl_2 from calcium hydride. All commercially available reagents were used without further purification. All nonaqueous reactions were performed under argon atmosphere with oven-dried glassware. ^1H NMR chemical shifts are reported in parts per million (ppm) downfield from tetramethylsilane (TMS) with reference to internal solvent. The chemical shifts for the carbons of the rotamers, when separated, are reported in parentheses. Low- and high-resolution mass spectra were recorded using fast atom bombardment (FAB), (TOF CI +), or electron spray (EI) techniques. Melting points were determined are uncorrected. Optical rotations were recorded in a 1 dm cell at ambient temperature with a sodium lamp (wavelength of 589 nm). Analytical thin-layer chromatography was performed on pre-coated silica gel plates. Visualization was performed by ultraviolet light and/or by staining with ceric ammonium molybdate or potassium permanganate. Chromatographic purifications were performed on a column with 230-400 mesh silica gel with the indicated solvent system.

ppm

S3

Current Data Parameters
 NAME gianluca2
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20020201
 Time 6.59
 INSTRUM spect
 PROBHD 5 mm QNP 1H/1
 PULPROG zg30
 TD 24000
 SOLVENT CDCl3
 NS 48
 DS 2
 SWH 4006.410 Hz
 FIDRES 0.166934 Hz
 AQ 2.9952500 sec
 RG 512
 DW 124.800 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.25 usec
 PL1 3.00 dB
 SF01 300.1318000 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300051 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 CY 0.00 cm
 F1P 9.000 ppm
 F1 2701.17 Hz
 F2P -0.000 ppm
 F2 -0.00 Hz
 PPMCM 0.40909 ppm/cm
 HZCM 122.78046 Hz/cm

Current Data Parameters
 NAME: gianluca2
 EXPNO: 2
 PROCNO: 1

F2 - Acquisition Parameters
 Date_: 20020201
 Time: 8.33
 INSTRUM: spect
 PROBHD: 5 mm QNP 1H/1
 PULPROG: zgpg30
 TO: 65536
 SOLVENT: CDCl3
 NS: 2048
 DS: 2
 SWH: 18832.393 Hz
 FIDRES: 0.287360 Hz
 AQ: 1.7400308 sec
 RG: 16384
 DM: 26.550 usec
 DE: 37.93 usec
 TE: 300.0 K
 D1: 1.00000000 sec
 d11: 0.03000000 sec
 d12: 0.00002000 sec

----- CHANNEL f1 -----
 NUC1: ¹³C
 P1: 10.90 usec
 PL1: 2.00 dB
 SF01: 75.4760200 MHz

----- CHANNEL f2 -----
 CPDPRG2: waltz16
 NUC2: ¹H
 PCPD2: 67.00 usec
 PL2: 5.00 dB
 PL12: 21.87 dB
 PL13: 120.00 dB
 SF02: 300.1310505 MHz

F2 - Processing parameters
 SI: 131072
 SF: 75.4677190 MHz
 WHW: EN
 SSB: 0
 LB: 1.00 Hz
 GB: 0
 PC: 1.40

10 NMR plot parameters
 CX: 22.00 cm
 CY: 0.00 cm
 F1P: 220.000 ppm
 F1: 16602.90 Hz
 F2P: 0.000 ppm
 F2: 0.00 Hz
 PPMH: 10.00000 ppm/c
 V1: 754.67719 Hz/cm

S10

S12

S16

50

S18

58

S22

ppm

S23

65

ppm

S25

ppm

S26

36.765
39.073
42.221

59.548
64.184
68.492
77.128
77.446
77.763

123.679
125.542
127.446
127.493
127.529
129.160
140.785
141.581
142.730
145.754

ppm

S27

0
20
40
60
80
100
120
140
160
180
200
ppm