Electronic Supplementary Information for

Dysohonin A, a Meroditerpenoid Incorporating a 6,15,6-Fused Heterotricyclic Ring System from Dysoxylum hongkongense

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Bioassays

**PTP1B Inhibitory Activity Assay.** The PTP1B inhibitory activity was measured according to the reported protocol.¹

**Cytotoxicity Assay.** The cytotoxicity activities were evaluated against HL-60 and A-549 cell lines by an MTT method² and the SRB protein staining method,³ respectively.

References


**Figure S1.** Selected 2D NMR correlations for 3

**Figure S2.** Selected 2D NMR correlations for 4

**Figure S3.** CD spectra of 4 and in situ formed Mo-complex of 4 recorded in DMSO (the R configuration of C-3 was determined by the negative Cotton effect at 278 nm)
Figure S4. UV spectrum of 1

Figure S5. UV spectrum of 2
**Figure S6.** UV spectrum of 3

**Figure S7.** UV spectrum of 4
Figure S8. $^1$H NMR spectra of 1
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Figure S10. HSQC spectra of 1
Figure S11. HMBC spectra of 1
Figure S12. $^1$H–$^1$H COSY spectrum of 1

Figure S13. ROESY spectrum of 1
Figure S14. (+)-ESIMS spectrum of 1
Figure S15. (−)-ESIMS spectrum of 1
Figure S16. (--)HRESIMS spectrum of 1

Elemental Composition Report

Single Mass Analysis
Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Element prediction: OFF
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
183 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)
Elements Used:
C: 6-80  H: 2-120  N: 0-1  O: 0-20

LCT PXE KE324

28-Mar-2013
10:16:57
1: TOF MS ES-
1.25e+004

Figure S17. IR spectrum of 1
Figure S18. $^1$H NMR spectrum of 2

Figure S19. $^{13}$C NMR spectrum of 2
Figure S20. HSQC spectrum of 2

Figure S21. HMBC spectrum of 2
Figure S22. ROESY spectrum of 2
Figure S23. (++)-ESIMS spectrum of 2
Figure S24. (−)-ESIMS spectrum of 2
Figure S25. (−)-HRESIMS spectrum of 2

Elemental Composition Report

Single Mass Analysis
Tolerance = 5.0 PPM  /  DBE: min = -1.5, max = 50.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
160 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)
Elements Used:
C: 6-80  H: 2-120  N: 0-1  O: 0-20

LCT PXE KES24
DK-57
28-Mar-2013
1: TOF MS ES-
1.75e+04

Minimum: 3.0
Maximum: 50.0
Mass Calc. Mass eXP a PPM DBE i-FIT 1-FIT (Norn) Formula
425.2692 425.2692 0.3 0.7 9.5 70.1 0.0 C27 H37 O4

Figure S26. IR spectrum of 2

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Figure S27. $^1$H NMR spectrum of 3

Figure S28. $^{13}$C NMR spectrum of 3
Figure S29. HMBC spectrum of 3

Figure S30. ROESY spectrum of 3
Figure S31. (+)-ESIMS spectrum of 3
Figure S32. (−)-ESIMS spectrum of 3
Figure S33. (+)-HRESIMS spectrum of 3

Figure S34. IR spectrum of 3
Figure S35. $^1$H NMR spectrum of 4

Figure S36. $^{13}$C NMR spectrum of 4
Figure S37. HSQC spectrum of 4

Figure S38. HMBC spectrum of 4
Figure S39. ROESY spectrum of 4
Figure S40. (+)-ESIMS spectrum of 4
Figure S41. (−)-ESIMS spectrum of 4
Figure S42. $(-)$-HRESIMS spectrum of 4

Figure S43. IR spectrum of 4