Supporting Information

Structurally Modified Cyclopenta[b]benzofuran Analogues Isolated from *Aglaia perviridis*

Garima Agarwal,[†] James R. Wilson,[†] Steven J. Kurina,[‡] Gerardo D. Anaya-Eugenio,[†] Tran Ngoc Ninh,[§] Joanna E. Burdette,[‡] Djaja D. Soejarto,^{§,[⊥]} Xiaolin Cheng,[†] Esperanza J. Carcache de Blanco,^{†,|} L. Harinantenaina Rakotondraibe,[†] and A. Douglas Kinghorn^{*,†}

[†]Division of Medicinal Chemistry and Pharmacognosy; ^IDivision of Pharmacy Practice and Science, College of Pharmacy, The Ohio State University, Columbus, OH 43210, United States

^{*}Department of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, University of Illinois at Chicago, Chicago, IL 60612, United States

[§]Institute of Ecology and Biological Resources, Vietnamese Academy of Science and Technology, Hanoi, Vietnam

[⊥]Science and Technology, Field Museum, Chicago, IL 60605, United States

List of supporting information

Figure S13. ¹ H NMR (700 MHz, MeOD) spectrum of 1	3
Figure S14. ¹³ C NMR (175 MHz, MeOD) spectrum of 1	4
Figure S15. ¹ H- ¹³ C HSQC NMR correlation spectrum of 1	5
Figure S16. ¹ H- ¹³ C HMBC NMR correlation (700 MHz, MeOD) spectrum of 1	6
Figure S17. HRESIMS spectrum of compound 1	7
Figure S18. ECD spectrum of compound 1 in MeOH	7
Figure S19. ¹ H NMR (700 MHz, MeOD) spectrum of 2	8
Figure S20. ¹³ C NMR (175 MHz, MeOD) spectrum of 2	9
Figure S21. ¹ H- ¹³ C HSQC NMR correlation spectrum of 2	10
Figure S22. ¹ H- ¹³ C HSQC NMR correlation spectrum of 2	11
Figure S23. HRESIMS spectrum of compound 2	12
Figure S24. ECD spectrum of compound 2 in MeOH	12
Figure S1. ¹ H NMR (700 MHz. MeOD) spectrum of 3	13
Figure S2. ¹³ C NMR (175 MHz, MeOD) spectrum of 3	14
Figure S3. ¹ H- ¹³ C HSQC NMR correlation spectrum of 3	15
Figure S4. ¹ H- ¹³ C HMBC NMR correlation spectrum of 3	16
Figure S5. HRESIMS spectrum of compound 3	17
Figure S6. ECD spectrum of compound 3 in MeOH	17
Figure S7. ¹ H NMR (700 MHz, MeOD) spectrum of 4	18
Figure S8. ¹³ C NMR (175 MHz, MeOD) spectrum of 4	19
Figure S9. ¹ H- ¹³ C HSQC NMR correlation spectrum of 4	20
Figure S10. ¹ H- ¹³ C HMBC NMR correlation spectrum of 4	21
Figure S11. HRESIMS spectrum of compound 4 (in methanol)	22
Figure S12. ECD spectrum of compound 4 in MeOH	22
Figure S25. ¹ H NMR (700 MHz, MeOD) spectrum of 5	23
Figure S26. ¹³ C NMR (175 MHz, MeOD) spectrum of 5	24
Figure S27. ¹ H- ¹³ C HSQC NMR correlation spectrum of 5	25
Figure S28. ¹ H- ¹³ C HMBC NMR correlation spectrum of 5	26
Figure S29. HRESIMS spectrum of compound 5	27
Figure S30. ECD spectrum of compound 5, MeOH	27
Figure S31. ECD spectrum of silvestrol (6), MeOH	28
Figure S32. ECD spectrum of 5 ^m -episilvestrol (7), MeOH	28



Figure S1. ¹H NMR (700 MHz, MeOD) spectrum of 1

S3



Figure S2. ¹³C NMR (175 MHz, MeOD) spectrum of 1



Figure S3. ¹H-¹³C HSQC NMR correlation spectrum of 1



Figure S4. ¹H-¹³C HMBC NMR correlation (700 MHz, MeOD) spectrum of 1



Figure S5. HRESIMS spectrum of compound 1



Figure S6. ECD spectrum of compound 1 in MeOH



Figure S7. ¹H NMR (700 MHz, MeOD) spectrum of 2



Figure S8. ¹³C NMR (175 MHz, MeOD) spectrum of 2



Figure S9. ¹H-¹³C HSQC NMR correlation spectrum of 2



Figure S10. ¹H-¹³C HSQC NMR correlation spectrum of 2



Figure S11. HRESIMS spectrum of compound 2



Figure S12. ECD spectrum of compound 2 in MeOH



Figure S13. ¹H NMR (700 MHz. MeOD) spectrum of 3





S15

Figure S15. ¹H-¹³C HSQC NMR correlation spectrum of **3**



Figure S16. ¹H-¹³C HMBC NMR correlation spectrum of 3



Figure S17. HRESIMS spectrum of compound 3



Figure S18. ECD spectrum of compound 3 in MeOH



Figure S19. ¹H NMR (700 MHz, MeOD) spectrum of 4

Figure S20. ¹³C NMR (175 MHz, MeOD) spectrum of 4

Figure S22. ¹H-¹³C HMBC NMR correlation spectrum of 4

Figure S23. HRESIMS spectrum of compound 4

Figure S24. ECD spectrum of compound 4 in MeOH

Figure S25. ¹H NMR (700 MHz, MeOD) spectrum of 5

Figure S26. ¹³C NMR (175 MHz, MeOD) spectrum of 5

Figure S27. ¹H-¹³C HSQC NMR correlation spectrum of 5

S25

Figure S28. ¹H-¹³C HMBC NMR correlation spectrum of **5**

Figure S29. HRESIMS spectrum of compound 5

Figure S30. ECD spectrum of compound 5, MeOH

Figure S31. ECD spectrum of silvestrol (6), MeOH

Figure S32. ECD spectrum of 5^m-episilvestrol (7), MeOH