Supplementary Information for

Poecillastrosides, Steroidal Saponins from the Mediterranean Deep-Sea Sponge *Poecillastra compressa* (Bowerbank, 1866)

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Figure S55. ESI-(+), spectrum of D-(+)-glucose derivative
<table>
<thead>
<tr>
<th>Compound Formula</th>
<th>Name</th>
<th>RT</th>
<th>Algorithm</th>
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<tr>
<td>C₄₀H₆₈O₁₃</td>
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$6 \times 10^6$

**MS Spectrum**

**Figure S1.** (–)-HRESIMS analysis of 1.
Figure S2. $^1$H NMR spectrum of 1 at 500 MHz in CD$_3$OD
Figure S3. COSY NMR spectrum of 1 at 500 MHz in CD-OD
Figure S4. TOCSY NMR spectrum of 1 at 500 MHz in CD3OD
Figure S5. NOESY NMR spectrum of 1 at 500 MHz in CD₃OD
Figure S6. $^{13}$C NMR spectrum of 1 at 125 MHz in CD$_3$OD
Figure S7. HSQC NMR spectrum of 1 at 500 MHz in CD$_3$OD
Figure S8. HMBC spectrum of 1 at 500 MHz in CD$_3$OD
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<td>C41H70O13</td>
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6 x10
MS Spectrum

Figure S9. (–)-HRESIMS analysis of 2.
Figure S10. $^1$H NMR spectrum of 2 at 500 MHz in CD$_3$OD
Figure S11. COSY NMR spectrum of 2 at 500 MHz in CD$_3$OD
Figure S12. TOCSY NMR spectrum of 2 at 500 MHz in CD$_3$OD
Figure S13. NOESY NMR spectrum of 2 at 500 MHz in CD$_3$OD
Figure S14. $^{13}$C NMR spectrum of 2 at 125 MHz in CD$_3$OD
Figure S15. HSQC NMR spectrum of 2 at 500 MHz in CD$_3$OD
Figure S16. HMBC spectrum of 2 at 500 MHz in CD$_3$OD
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Figure S17. (−)-HRESIMS analysis of 3.
Figure S18. $^1$H NMR spectrum of 3 at 500 MHz in CD$_3$OD
Figure S19. COSY NMR spectrum of 3 at 500 MHz in CD$_3$OD
Figure S20. TOCSY NMR spectrum of 3 at 500 MHz in CD$_3$OD
Figure S21. $^{13}$C NMR spectrum of 3 at 500 MHz in CD$_3$OD
Figure S22. HSQC NMR spectrum of 3 at 500 MHz in CD$_3$OD
Figure S23. PSYCHE_1D NMR spectrum of 3 at 500 MHz in CD$_3$OD
Figure S24. PS-HSQC NMR spectrum of 3 at 500 MHz in CD₃OD
Figure S25. HMBC spectrum of 3 at 500 MHz in CD3OD
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<td>Poecillastroside D</td>
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5 x10
MS Spectrum

Figure S26. (+)-HRESIMS analysis of 4.
Figure S27. $^1$H NMR spectrum of 4 at 500 MHz in CD$_3$OD
Figure S28. COSY NMR spectrum of 4 at 500 MHz in CD₃OD
Figure S29. TOCSY NMR spectrum of 4 at 500 MHz in CD$_3$OD
Figure S30. $^{13}$C NMR spectrum of 4 at 125 MHz in CD$_3$OD
Figure S31. HSQC NMR spectrum of 4 at 500 MHz in CD$_3$OD
Figure S32. HMBC spectrum of 4 at 500 MHz in CD$_3$OD
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5 x10
MS Spectrum

**Figure S33.** (+)-HRESIMS analysis of 5.
**Figure S34.** $^1$H NMR spectrum of 5 at 500 MHz in CD$_3$OD
Figure S35. COSY NMR spectrum of 5 at 500 MHz in CD₃OD
Figure S36. NOESY NMR spectrum of 5 at 500 MHz in CD₃OD
Figure S37. $^{13}$C NMR spectrum of 5 at 125 MHz in CD$_3$OD
Figure S38. HSQC NMR spectrum of 5 at 500 MHz in CD3OD
Figure S39. HMBC spectrum of 5 at 500 MHz in CD3OD
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MS Spectrum

Figure S40. (+)-HRESI/MS analysis of 6.
Figure S41. $^1$H NMR spectrum of 6 at 600 MHz in CD$_3$OD
Figure S42. COSY NMR spectrum of 6 at 600 MHz in CD$_3$OD
Figure S43. $^{13}$C NMR spectrum of 6 at 150 MHz in CD$_3$OD
Figure S44. HSQC NMR spectrum of 6 at 600 MHz in CD$_3$OD
Figure S45. HMBC spectrum of 6 at 600 MHz in CD$_3$OD
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MS Spectrum

![MS Spectrum](image)

**Figure S46.** (+)-HRESIMS analysis of 7.
Figure S47. $^1$H NMR spectrum of 7 at 600 MHz in CD$_3$OD
Figure S48. COSY NMR spectrum of 7 at 600 MHz in CD3OD
Figure S49. TOCSY NMR spectrum of 7 at 600 MHz in CD3OD
Figure S50. $^{13}$C NMR spectrum of 7 at 150 MHz in CD$_3$OD
Figure S51. HSQC NMR spectrum of 7 at 600 MHz in CD$_3$OD
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Figure S54. Absolute configuration of the pyranose moieties of 3

Figure S55. ESI-(+) mass spectrum of D-(+)-glucose derivative