Supplementary Information

Figure S1. $^1$H-NMR spectrum of N-(2-hydroxyphenyl)-acetamide (11) in DMSO-$d_6$.

Figure S2. $^1$H-NMR spectrum of 1,6-dihydroxyphenazine (12) in DMSO-$d_6$. 
Figure S3. $^1$H-NMR spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino [3,2-b][1,4]benzoxazine (13a) in DMSO-$d_6$.

Figure S4. $^{13}$C-NMR spectrum 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino [3,2-b][1,4]benzoxazine (13a) in DMSO-$d_6$. 
**Figure S5.** $^1$H-NMR spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-b][1,4]benzoxazine (13a) in pyridine-$d_5$.

**Figure S6.** $^{13}$C-NMR spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-b][1,4]benzoxazine (13a) in pyridine-$d_5$. 
Figure S7. Edited gHSQC spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-b][1,4]benzoxazine (13a) in pyridine-$d_5$.

Figure S8. HMBC spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-b][1,4]benzoxazine (13a) in pyridine-$d_5$. 
Figure S9. NMR titration of 1,6-dihydroxyphenazine (12) in fraction 24 sourced from Actinokineospora sp. EG49 in DMSO-d$_6$.

Figure S10. $^1$H NMR fingerprints of HPLC fractions 26 (A) and 27 (B) sourced from the EtOAc extracts of the Nocardiopsis sp. and Actinokineospora sp. co-culture (black) and the Actinokineospora sp. monoculture (blue) and Nocardiopsis sp. monoculture (red).
Figure S10. Cont.

**Figure S11.** Biological activity of compounds 11, 12 and 13 against *Bacillus* sp. P21, with the white arrow showing the inhibition zone diameter.
Figure S12. Biological activity of compounds 11, 12 and 13 against *Actinokineospora* sp. EG49, with the white arrow showing the inhibition zone diameter.

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