

Supplementary Information

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

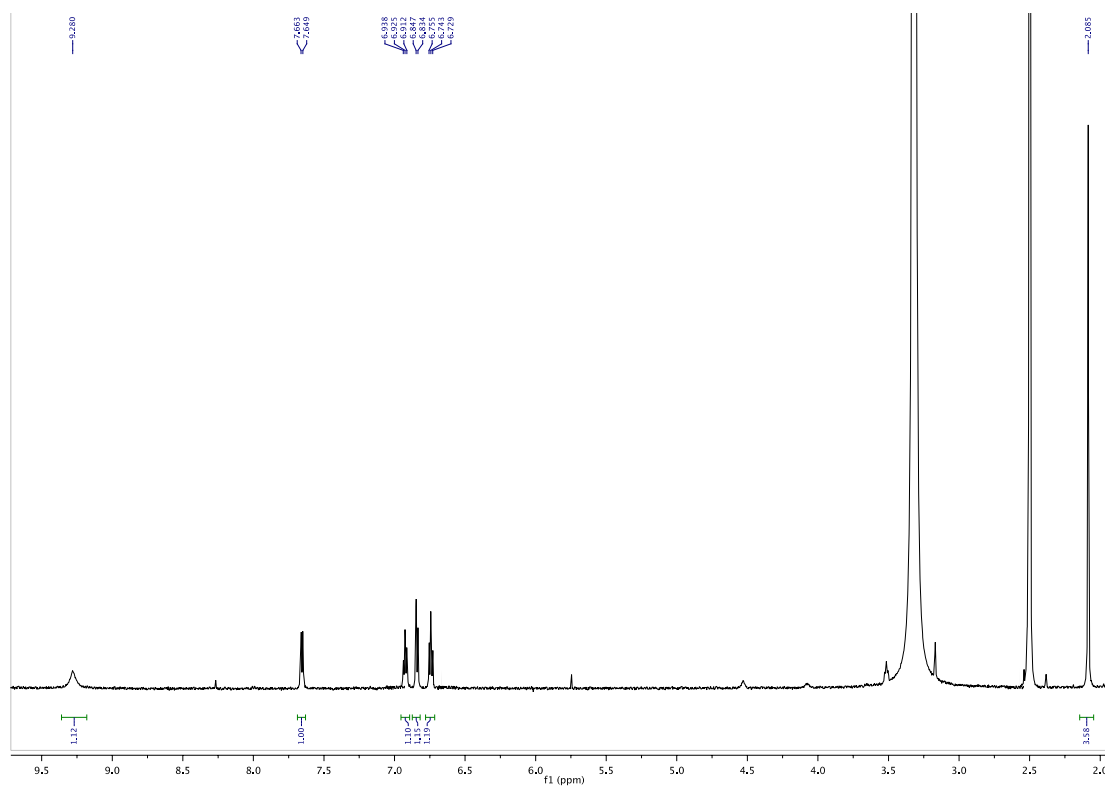


Figure S2. $^1\text{H-NMR}$ spectrum of 1,6-dihydroxyphenazine (**12**) in $\text{DMSO-}d_6$.

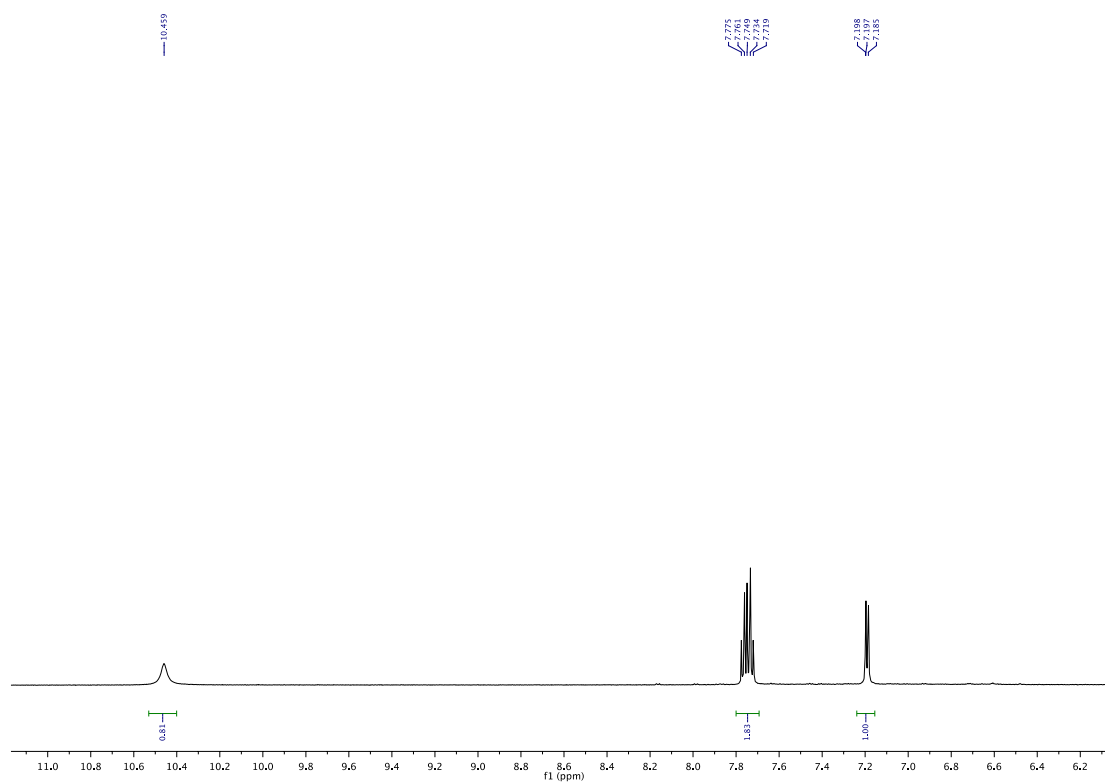


Figure S3. $^1\text{H-NMR}$ spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino [3,2-*b*][1,4]benzoxazine (**13a**) in $\text{DMSO-}d_6$.

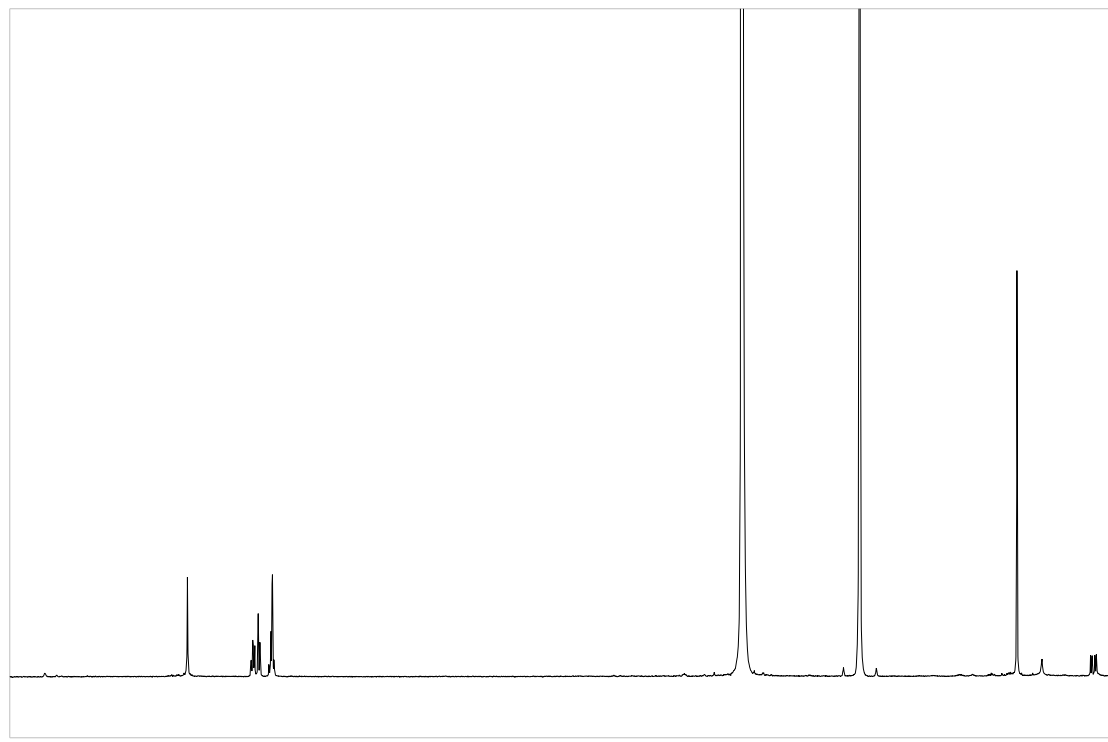


Figure S4. $^{13}\text{C-NMR}$ spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino [3,2-*b*][1,4]benzoxazine (**13a**) in $\text{DMSO-}d_6$.

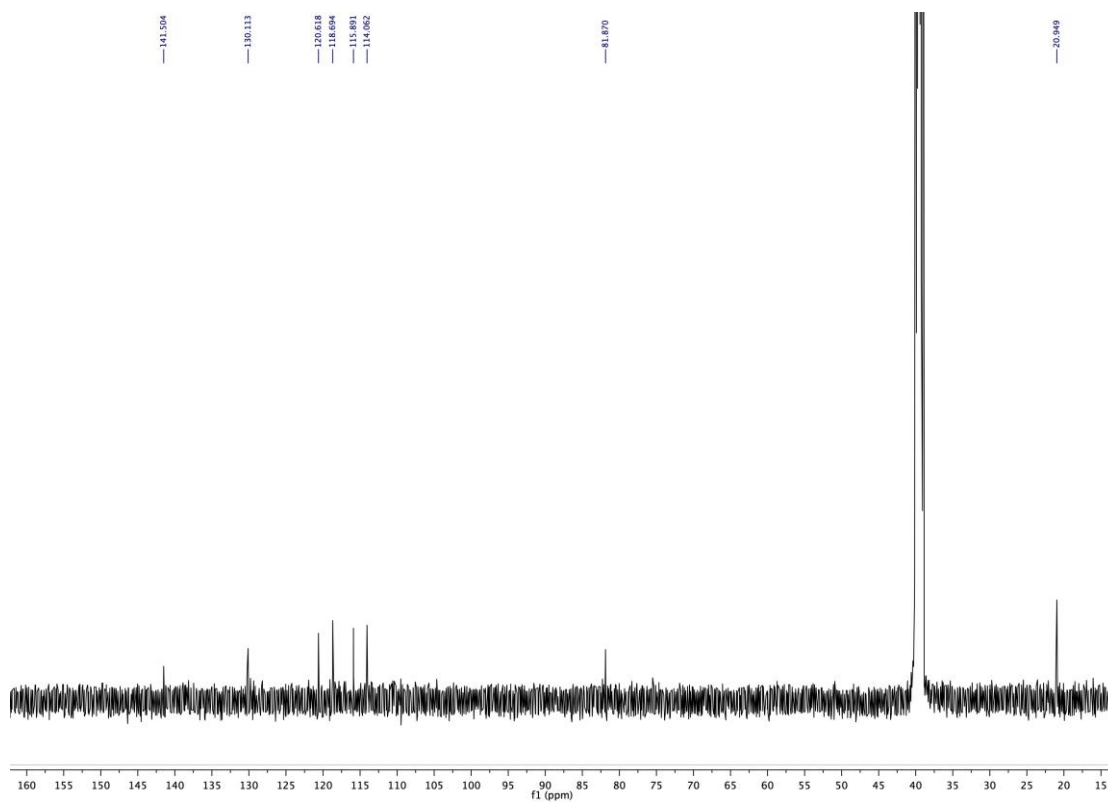


Figure S5. $^1\text{H-NMR}$ spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-*b*][1,4]benzoxazine (**13a**) in pyridine- d_5 .

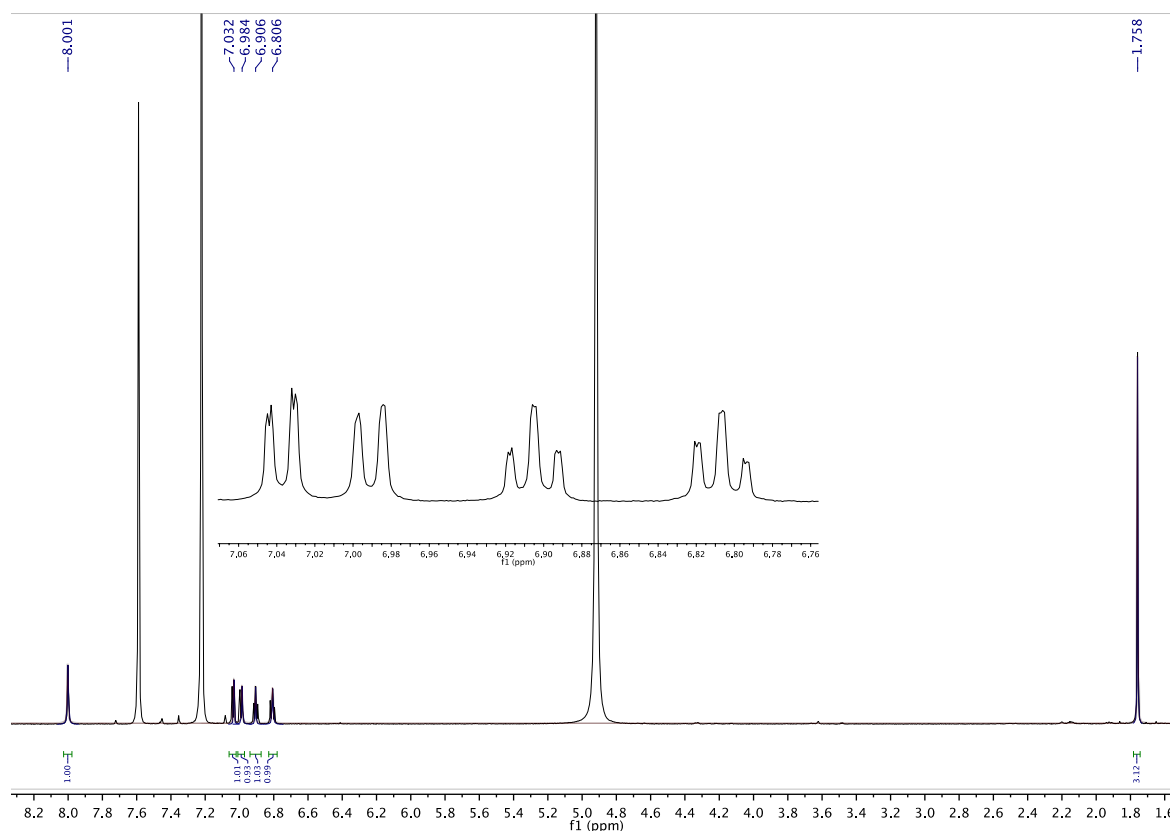


Figure S6. $^{13}\text{C-NMR}$ spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-*b*][1,4]benzoxazine (**13a**) in pyridine- d_5 .

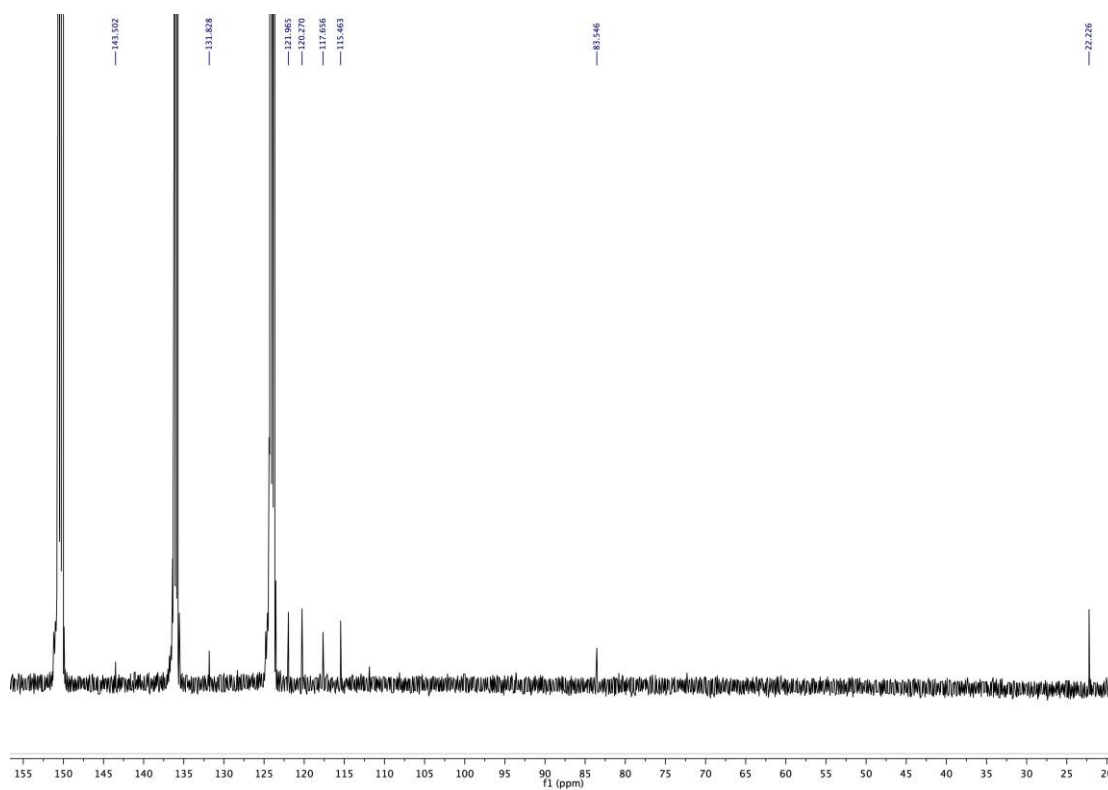


Figure S7. Edited gHSQC spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-*b*][1,4]benzoxazine (**13a**) in pyridine-*d*₅.

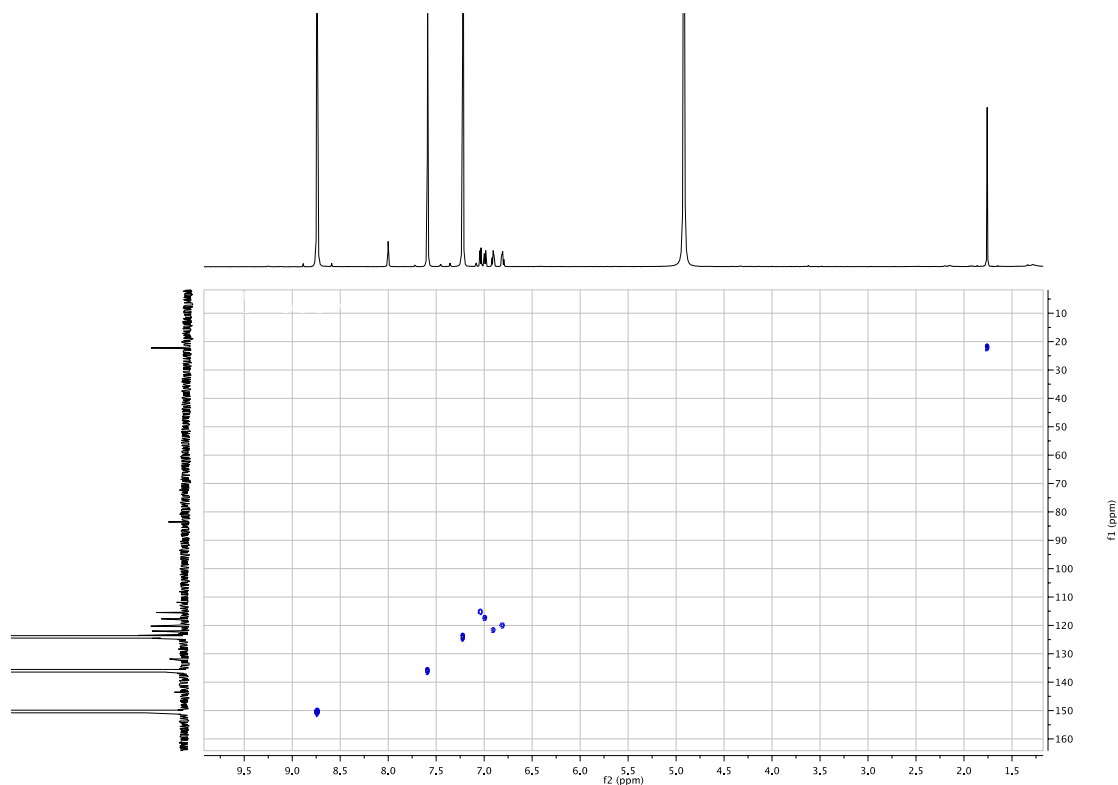


Figure S8. HMBC spectrum of 5a,6,11a,12-tetrahydro-5a,11a-dimethyl[1,4]benzoxazino[3,2-*b*][1,4]benzoxazine (**13a**) in pyridine-*d*₅.

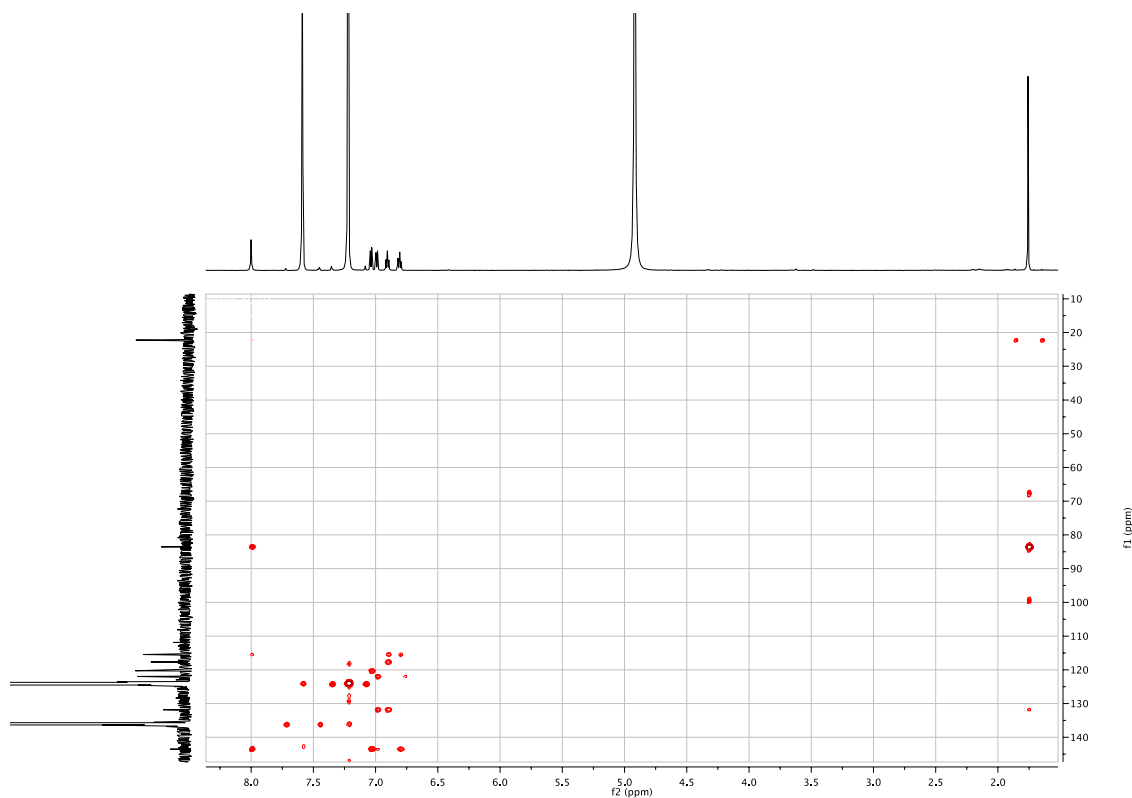


Figure S9. NMR titration of 1,6-dihydroxyphenazine (**12**) in fraction 24 sourced from *Actinokineospora* sp. EG49 in DMSO- d_6 .

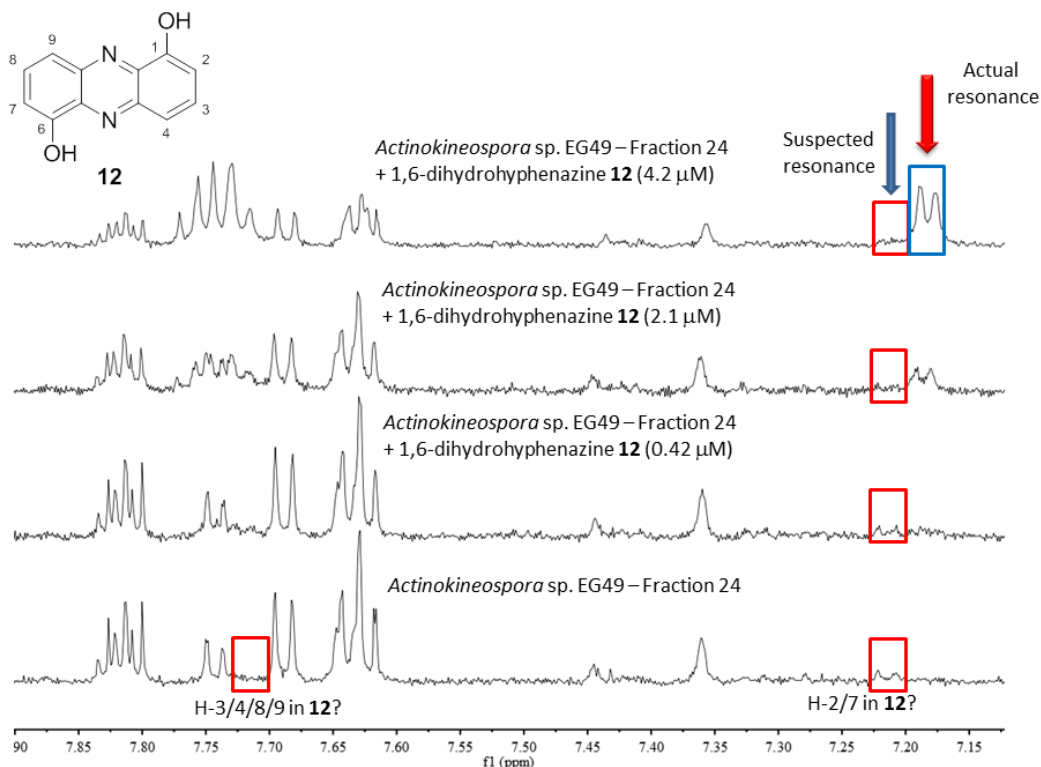
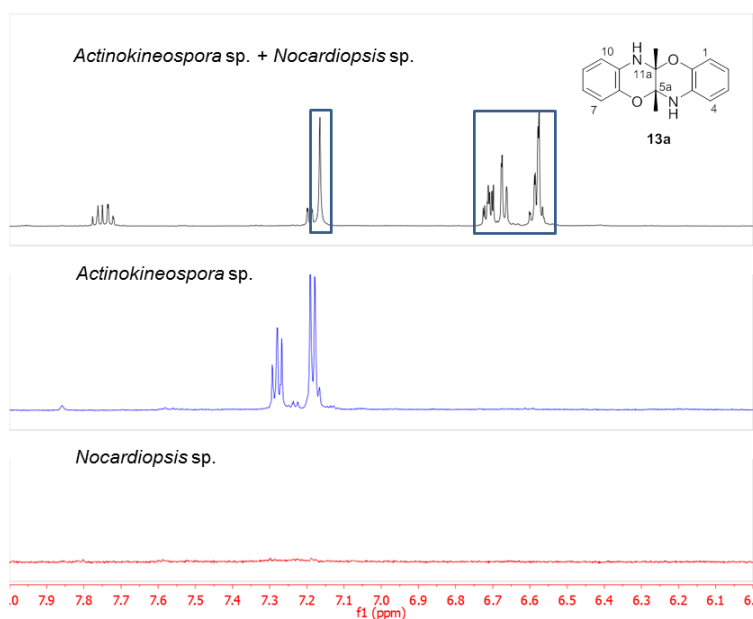
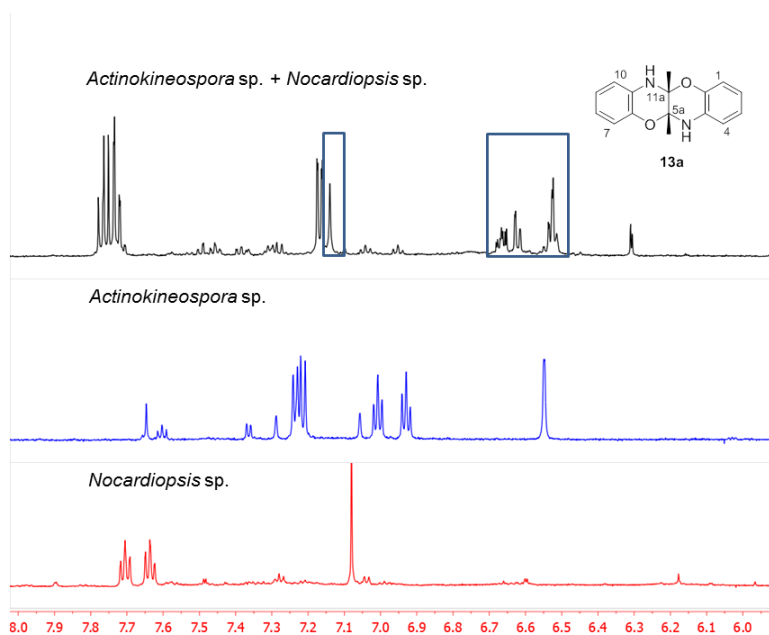


Figure S10. ^1H NMR fingerprints of HPLC fractions 26 (**A**) and 27 (**B**) sourced from the EtOAc extracts of the *Nocardiosis* sp. and *Actinokineospora* sp. co-culture (black) and the *Actinokineospora* sp. monoculture (blue) and *Nocardiosis* sp. monoculture (red).



(A)

Figure S10. Cont.



(B)

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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