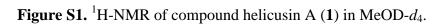
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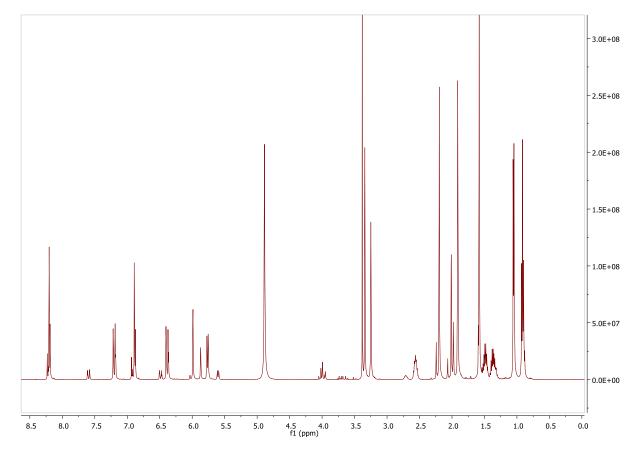
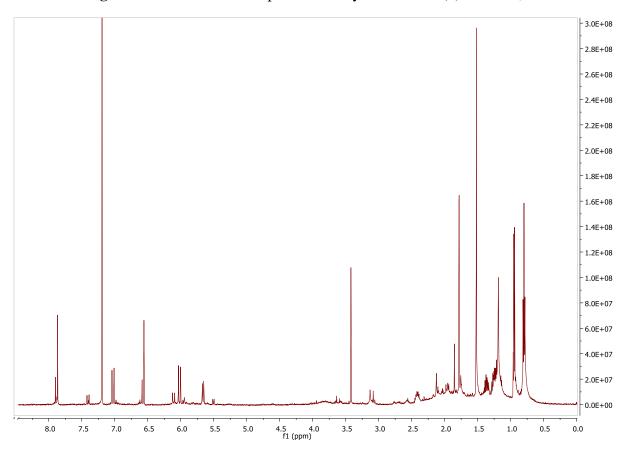
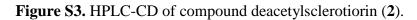
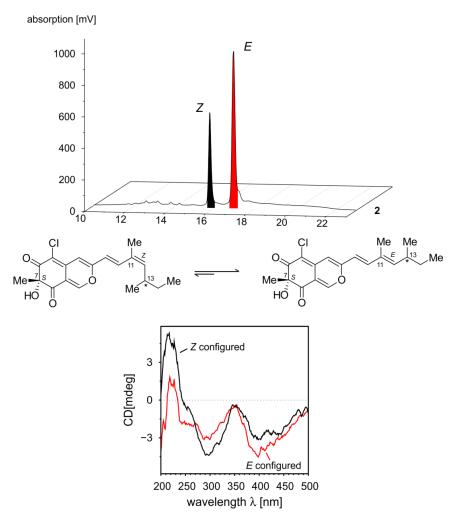


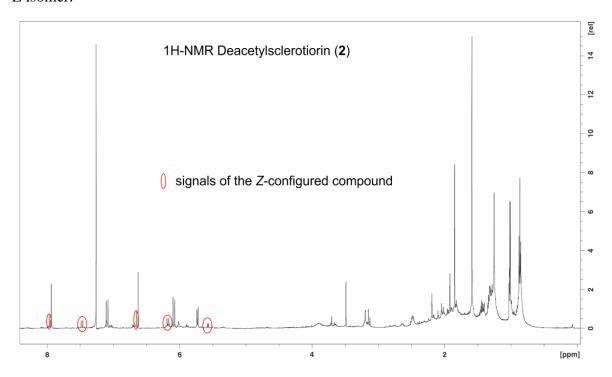
Figure S2. <sup>1</sup>H-NMR of compound deacetylsclerotiorin (2) in CDCl<sub>3</sub>.

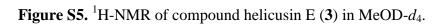


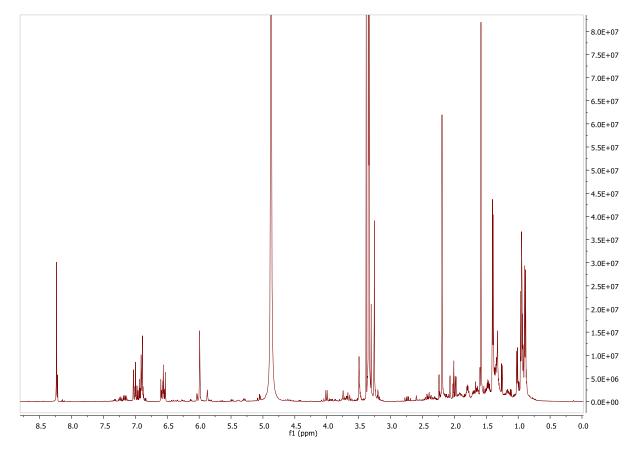




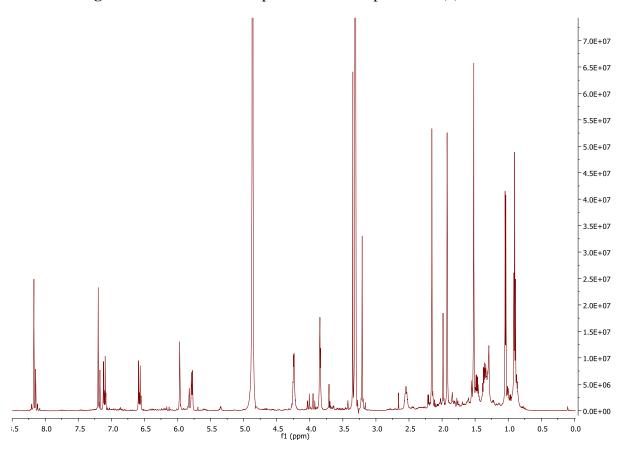
**Figure S4.** <sup>1</sup>H-NMR of compound deacetylsclerotiorin (2) in CDCl3 showing traces of the *Z* isomer.



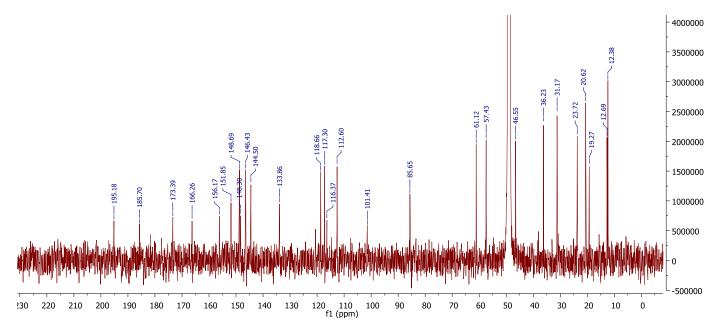




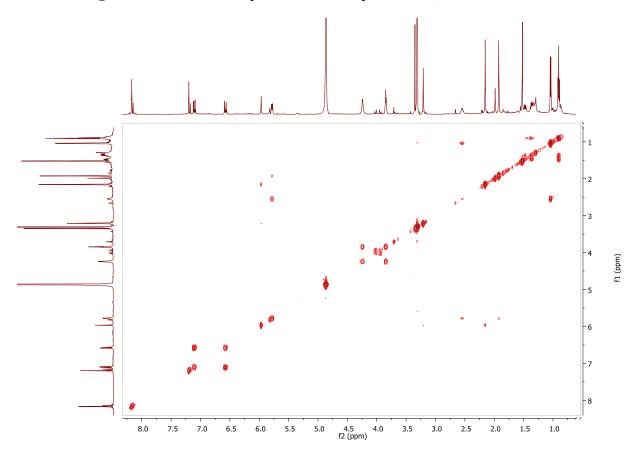
**Figure S6.**  $^{1}$ H-NMR of compound isochromophilone X (**4**) in MeOD- $d_{4}$ .



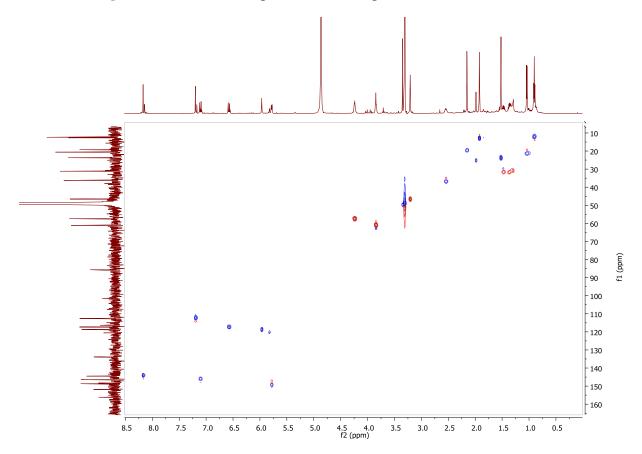
**Figure S7.**  $^{13}$ C-NMR of compound isochromophilone X (**4**) in MeOD- $d_4$ .



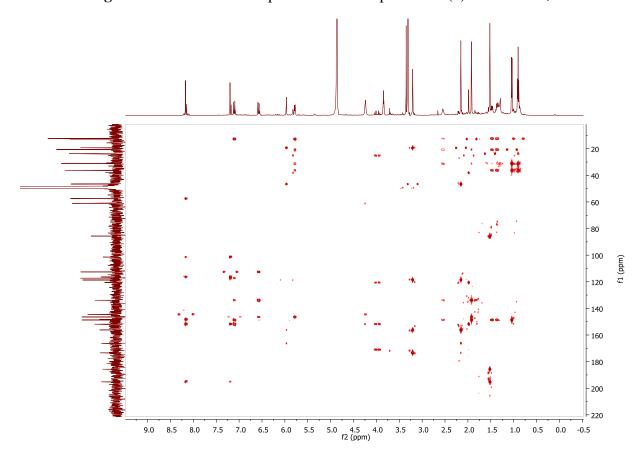
**Figure S8.** COSY of compound isochromophilone X (4) in MeOD- $d_4$ .



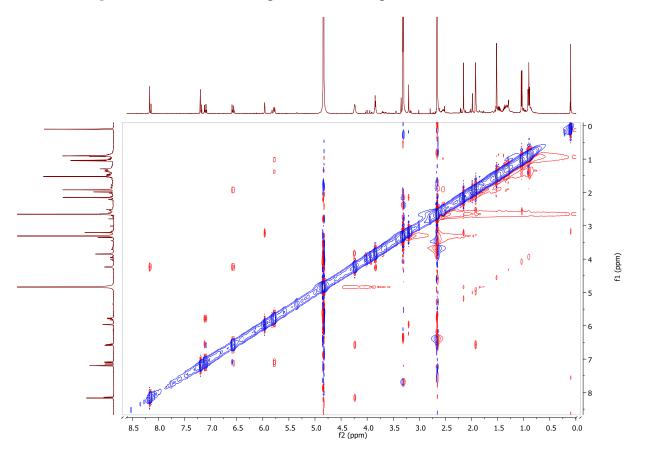
**Figure S9.** HSQC of compound isochromophilone X (4) in MeOD- $d_4$ .



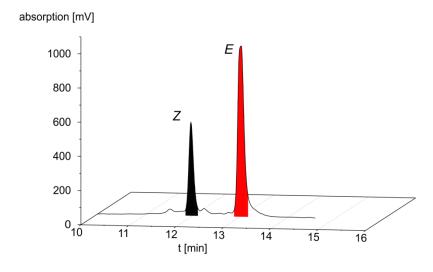
**Figure S10.** HMBC of compound isochromophilone X (4) in MeOD- $d_4$ .

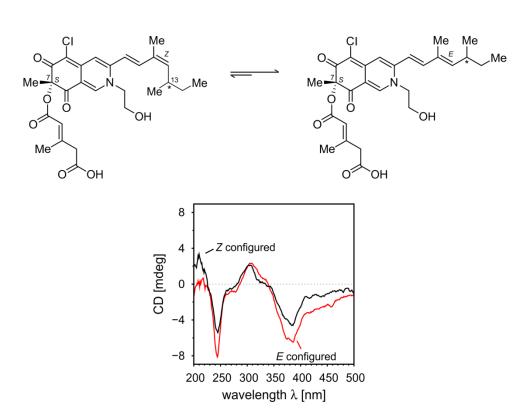


**Figure S11.** NOESY of compound isochromophilone X (4) in MeOD- $d_4$ .

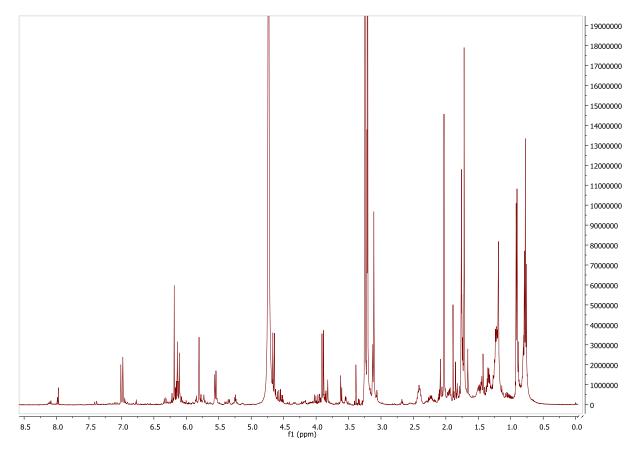


**Figure S12.** HPLC-CD of compound isochromophilone X (4).

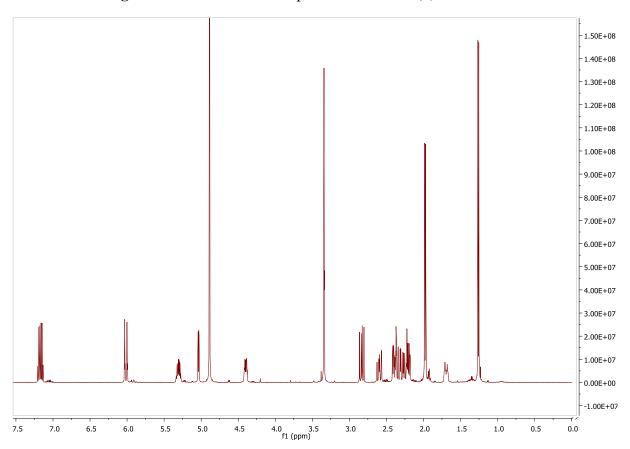


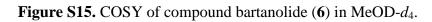


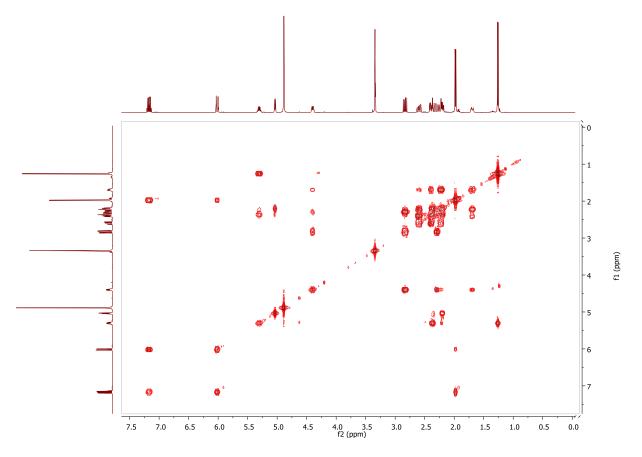
**Figure S13.**  $^{1}$ H-NMR of compound isochromophilone XI (**5**) in MeOD- $d_4$ .



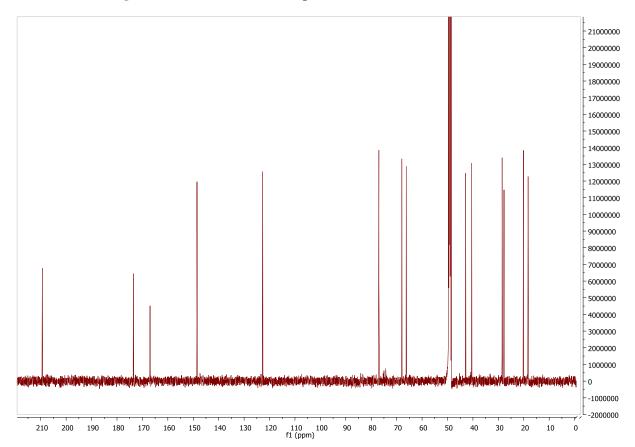
**Figure S14.** <sup>1</sup>H-NMR of compound bartanolide (**6**) in MeOD-*d*<sub>4</sub>.

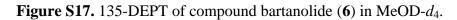


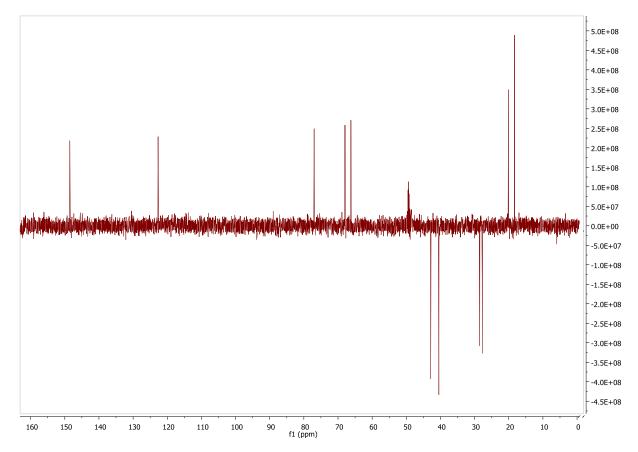




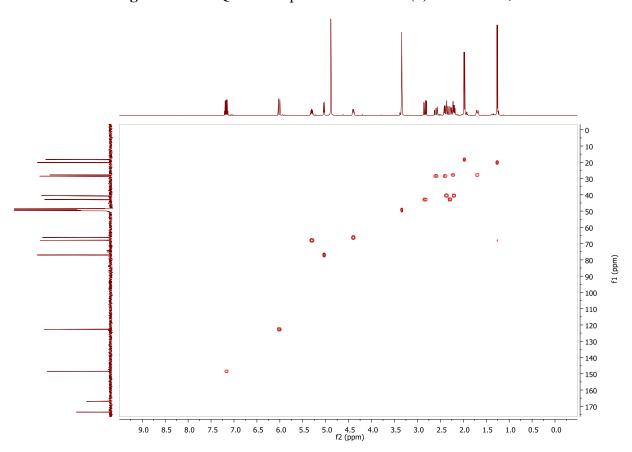
**Figure S16.**  $^{13}$ C-NMR of compound bartanolide (6) in MeOD- $d_4$ .

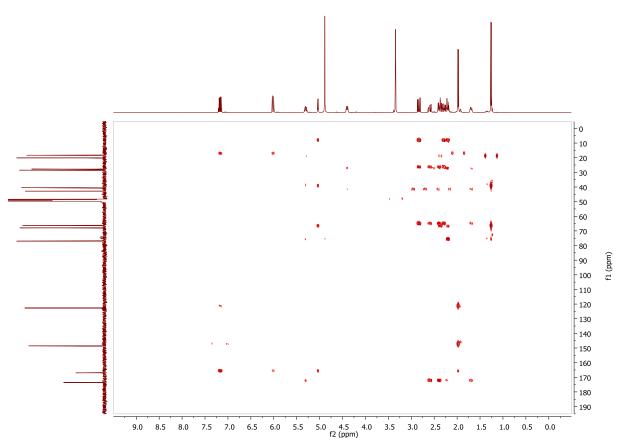






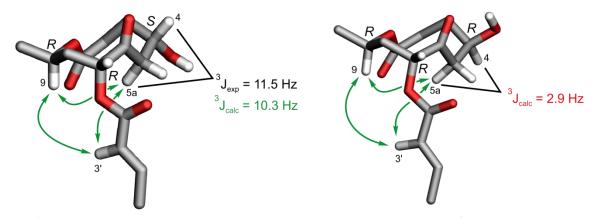
**Figure S18.** HSQC of compound bartanolide (6) in MeOD- $d_4$ .



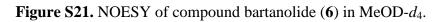


**Figure S19.** HMBC of compound bartanolide (6) in MeOD- $d_4$ .

**Figure S20.** Minimum Conformers of *S*,*R*,*R*-6 and *R*,*R*,*R*-6.



The found weak NOE between H-9 and H-5a and between H-9 and H-3' as well as the NOE between H-3' and H-5a were possible in the S,R,R- and the R,R,R-configurations (and in their enantiomers) of **6**. Conformational analyses with the B97D/TZVP method gave the minimum energy conformers shown above. Using the Karplus equation and NMR calculations (B3LYP/6-31G\*\*//B97D/TZVP, CPCM, solvent = methanol) of the  $^3J$  coupling between H-5a and H-4 it became clear that only the S,R,R configuration and its enantiomer fit to the experimental results.



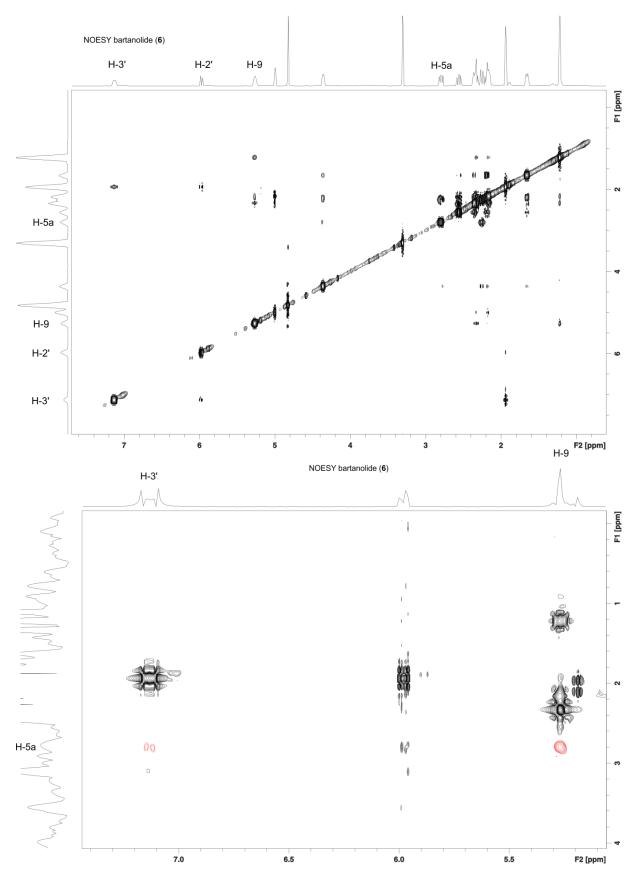


Figure S21. Cont.

