

Supporting information

Solubility of collinin and isocollinin in pressurized carbon dioxide: synthesis, solubility parameters and equilibrium measurements

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This document presents the supporting information associated to the article entitled “Solubility of collinin and isocollinin in pressurized carbon dioxide: synthesis, solubility parameters and equilibrium measurements”. The information is organized as follows:

- Figures S1-S4 show the ^1H -NMR spectra for the intermediate compounds daphnetin (3) and geranyloxy coumarin (6), and for the final products collinin (10) and isocollinin (11).
- Figures S5-S7 show the 1D NOESY NMR results for the precursor of isocollinin isomer, 7-hydroxy 8-geranyloxy coumarin (8), for the precursor of collinin isomer, 7-geranyloxy 8-hydroxy coumarin (9), and for isocollinin (11).
- Figures S8 and S9, show the ^{13}C -NMR spectra of collinin (10) and isocollinin (11), respectively.
- Figures S10-S15, show the thermograms of anthracene, daphnetin (3), 7-hydroxy 8-geranyloxy coumarin (8), 7-geranyloxy 8-hydroxy coumarin (9), collinin (10), and isocollinin (11).

Daphnetin_1H-NMR.esp

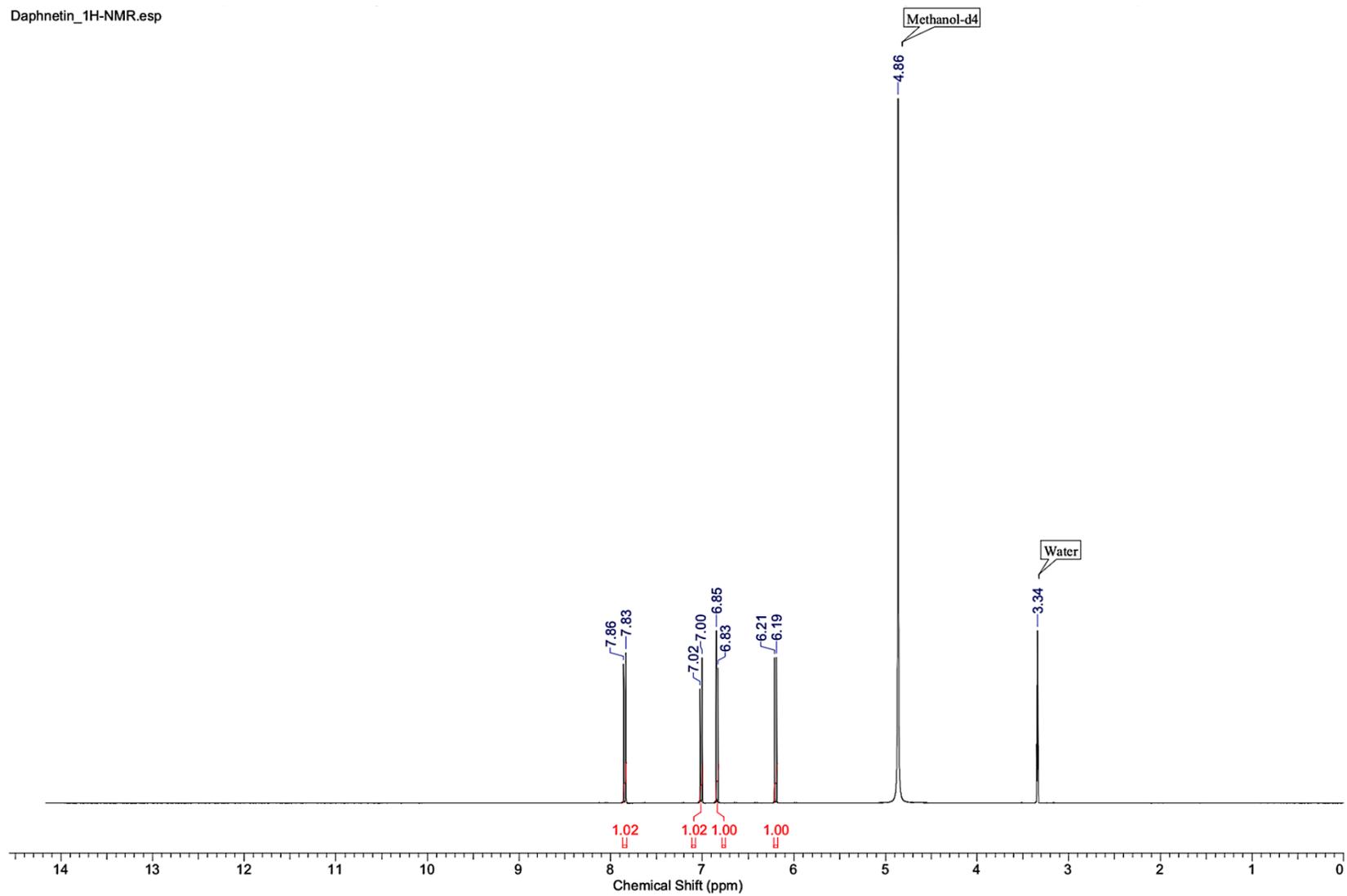


Fig.S1. ¹H NMR spectrum of Daphnetin (3).

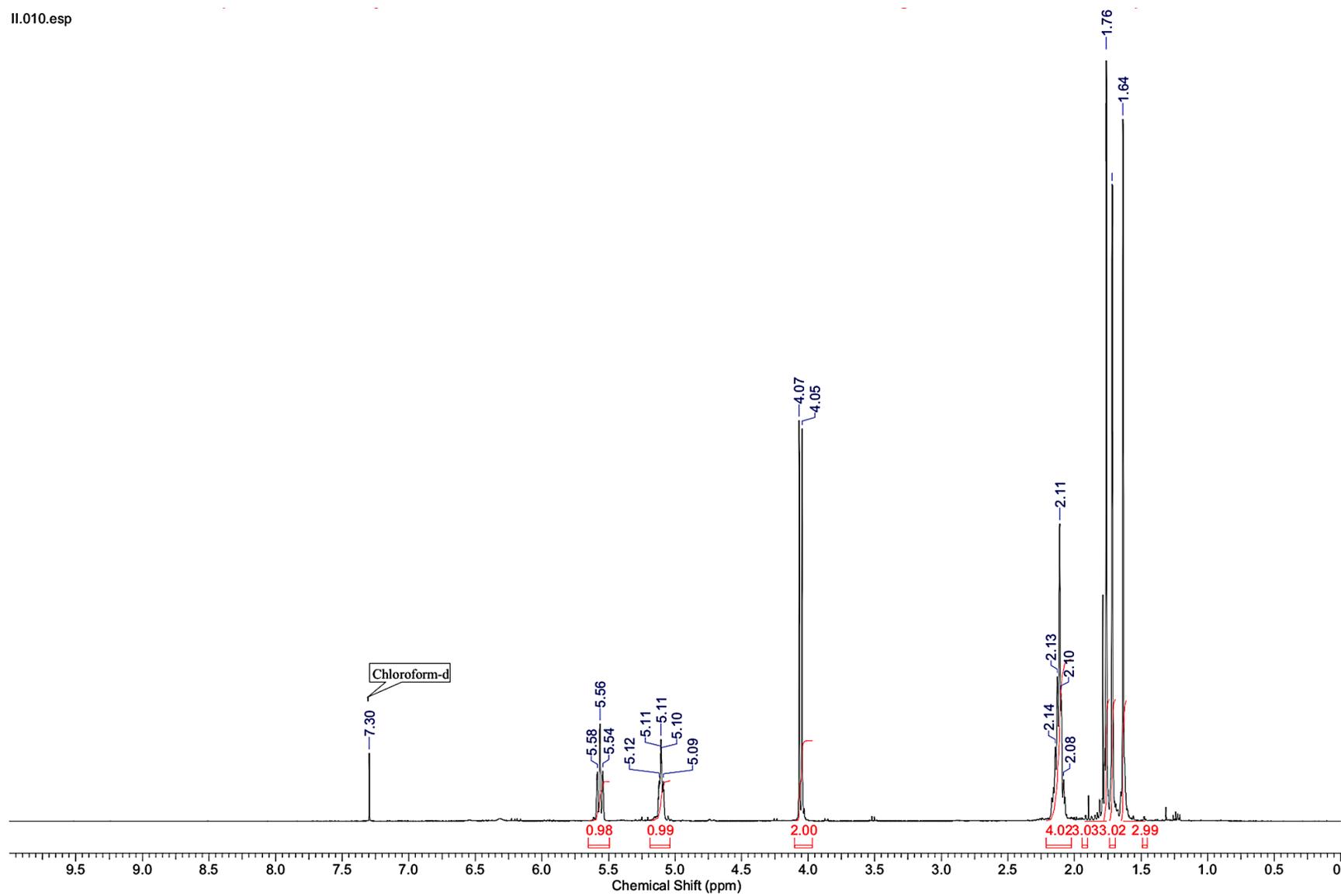


Fig.S2. ^1H NMR spectrum of geranyl bromide (6).

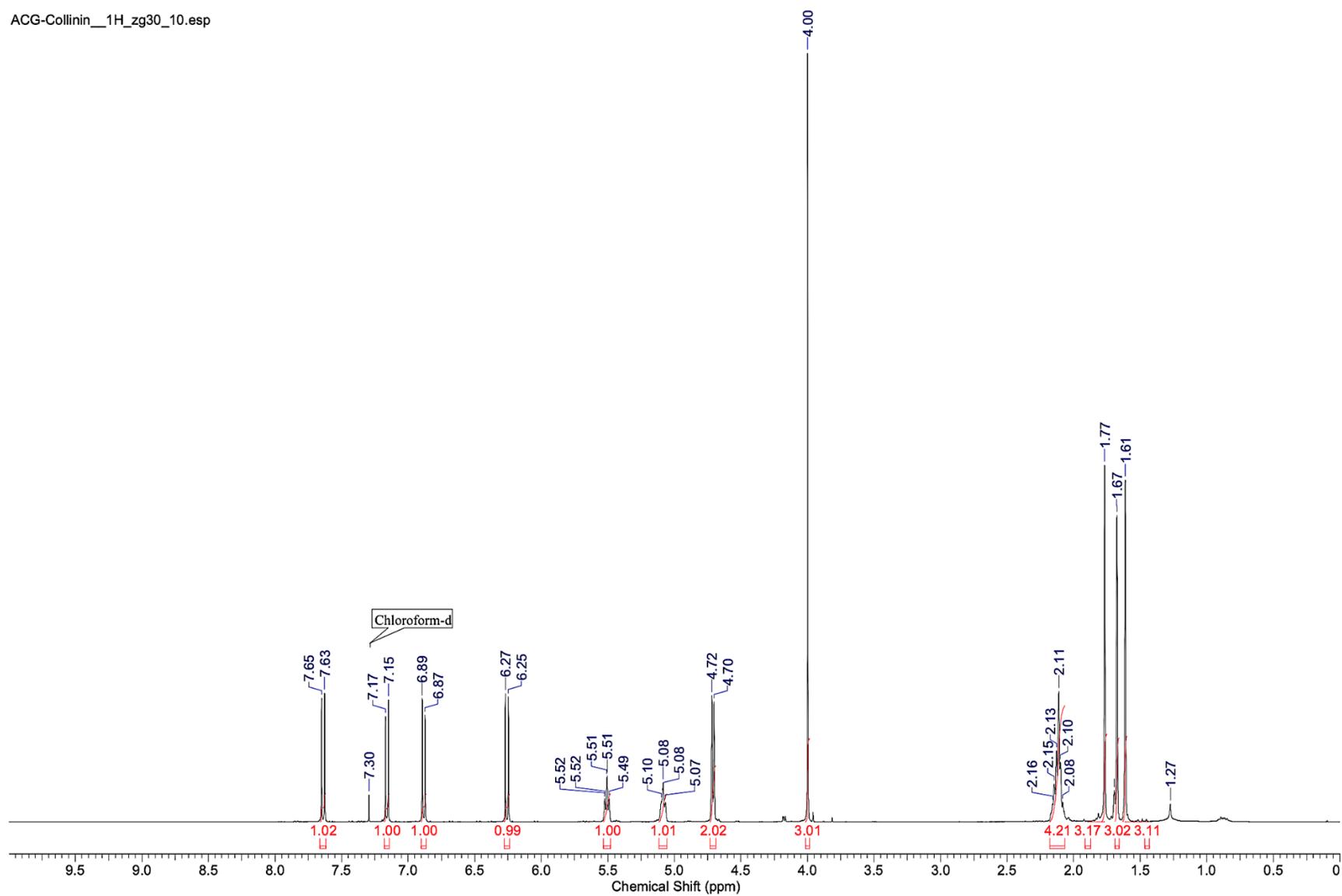


Fig.S3. ¹H NMR spectrum of Collinin (10).

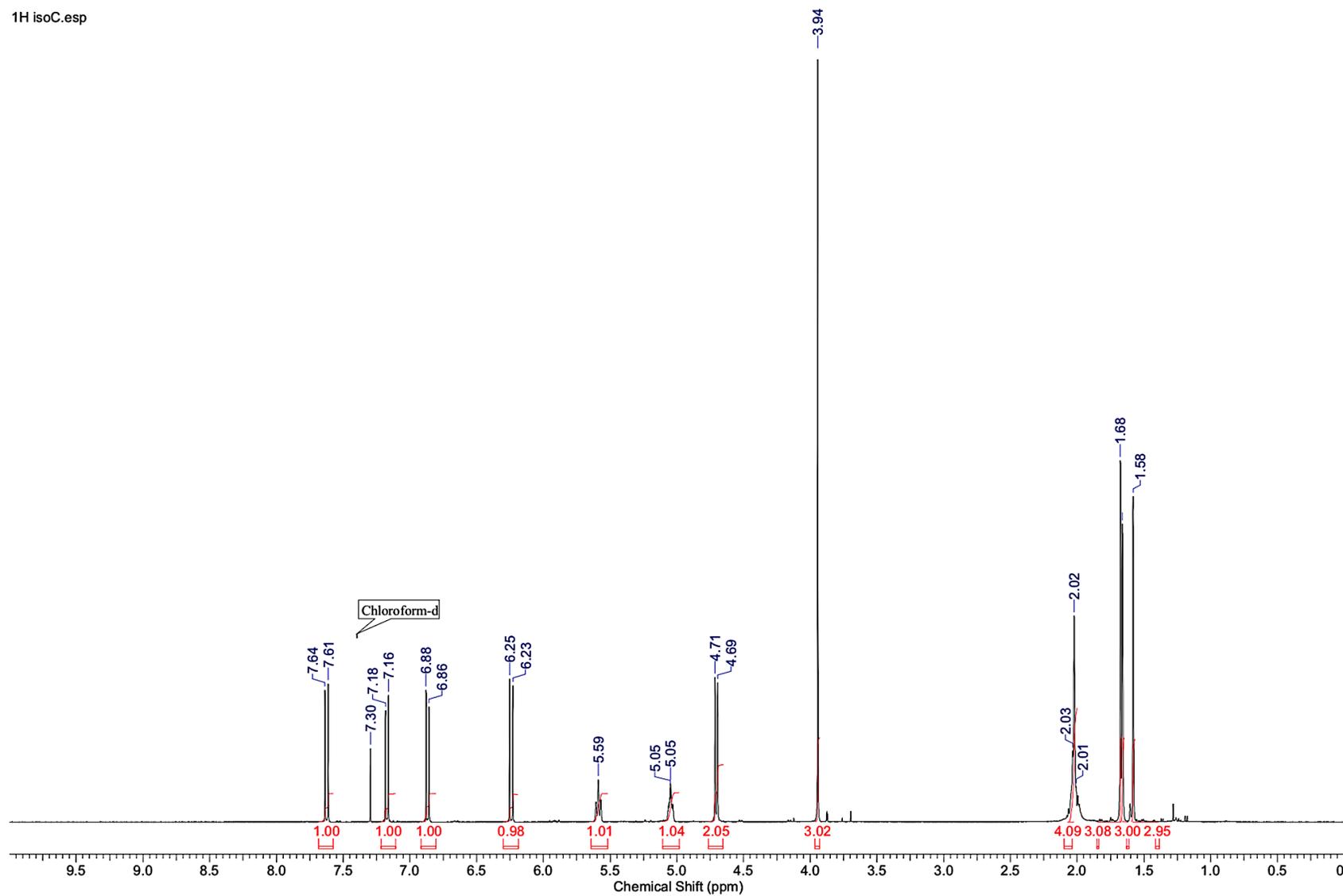


Fig.S4. ¹H NMR spectrum of isocollinin (11).

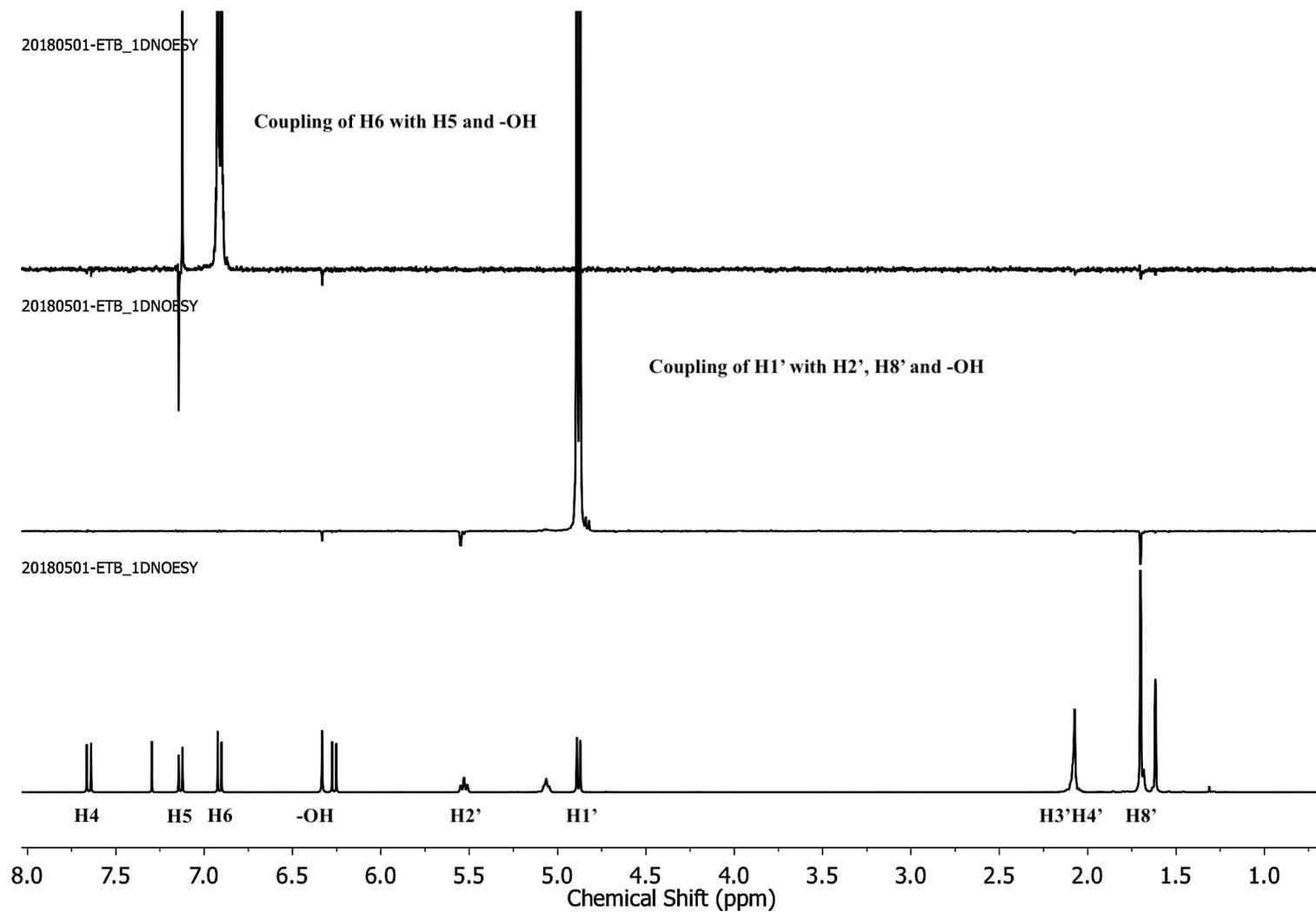


Fig.S5. Selective 1D NOESY NMR experiment of the precursor of isocollinin isomer, 7-hydroxy 8-geranyloxycoumarin (8).

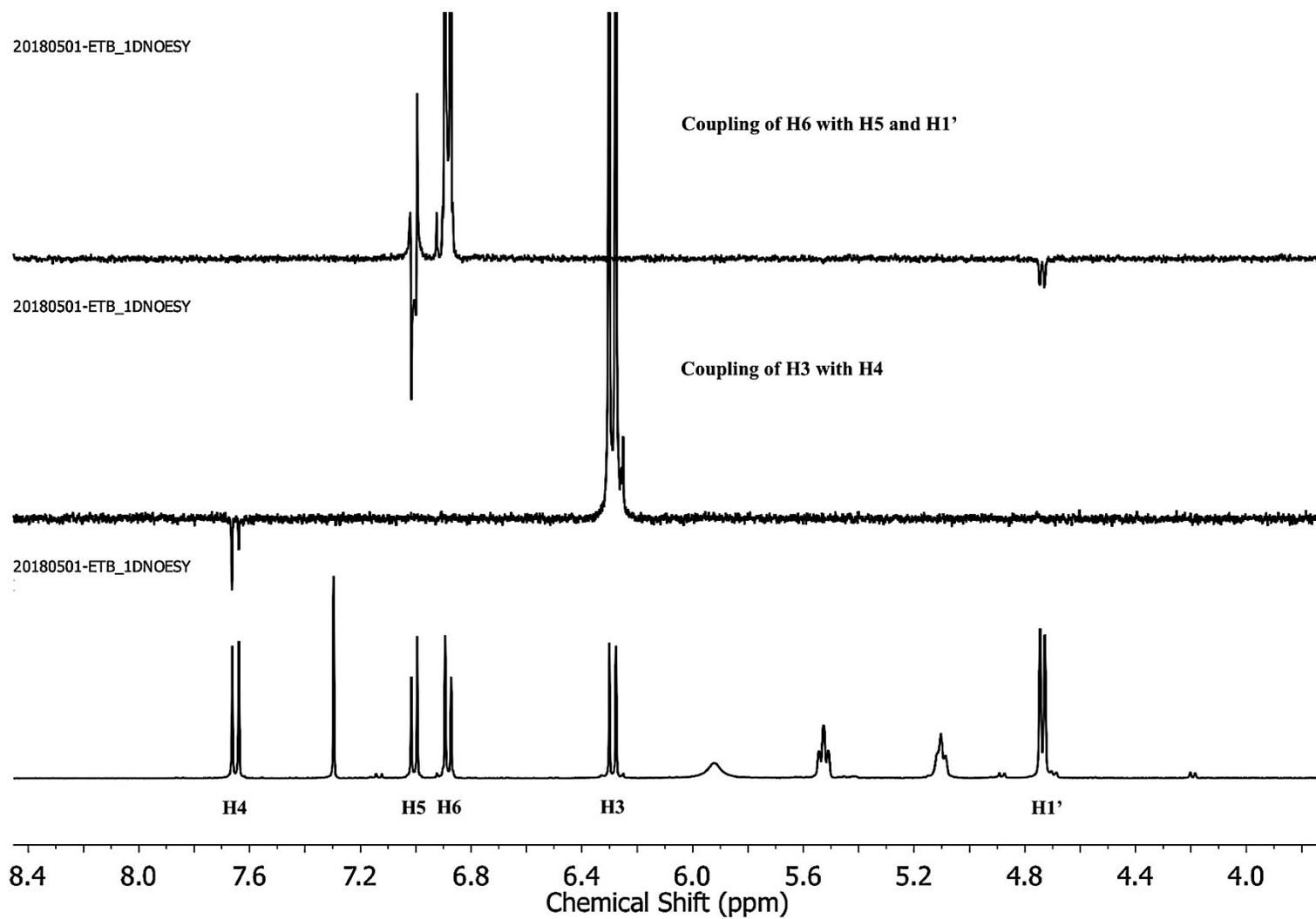


Fig.S6. Selective 1D NOESY NMR experiment of the precursor of collinin isomer, 7-geranyloxy 8-hydroxyacoumarin (9).

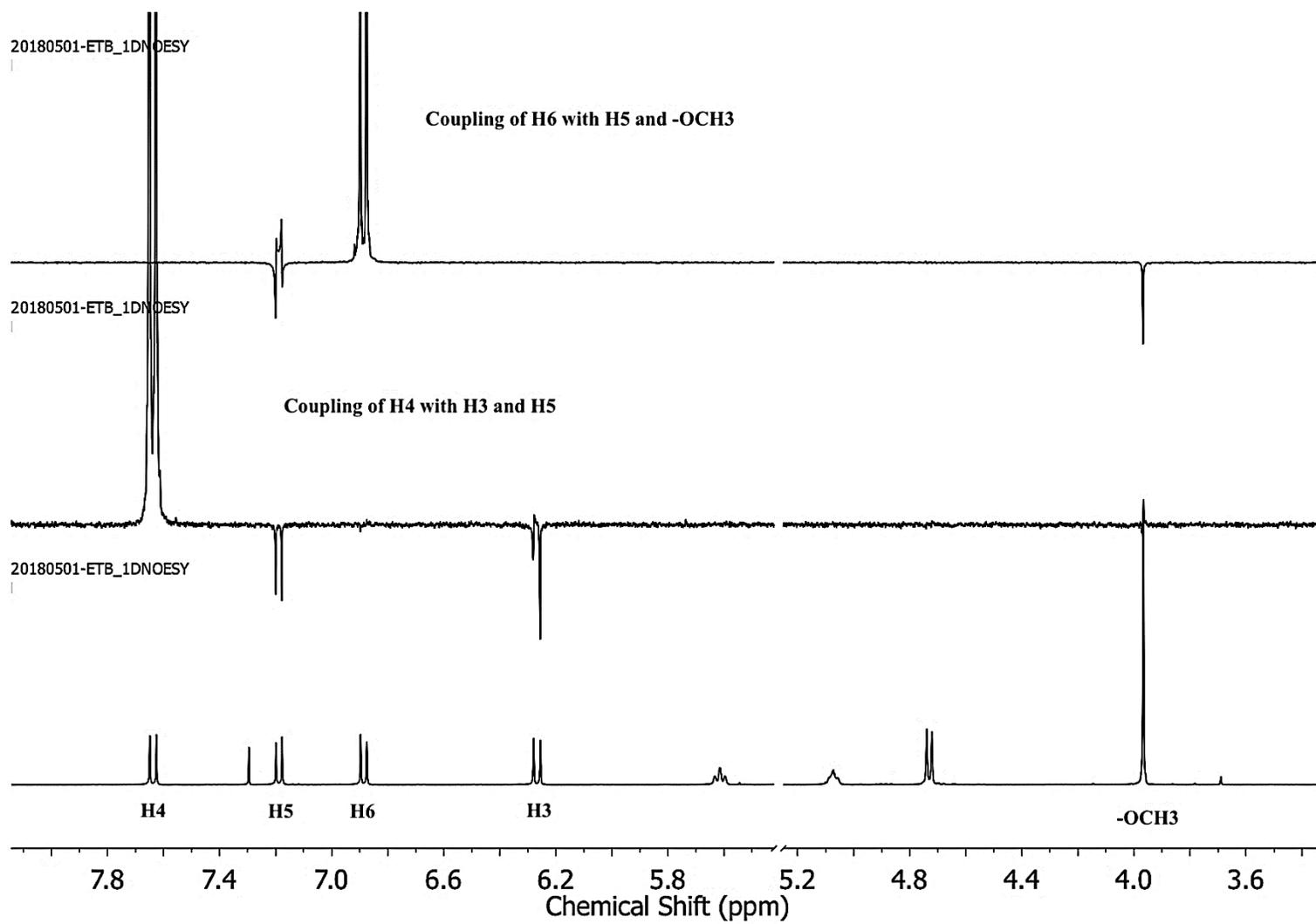


Fig.S7. Selective 1D NOESY NMR experiment of isocollinin (11).

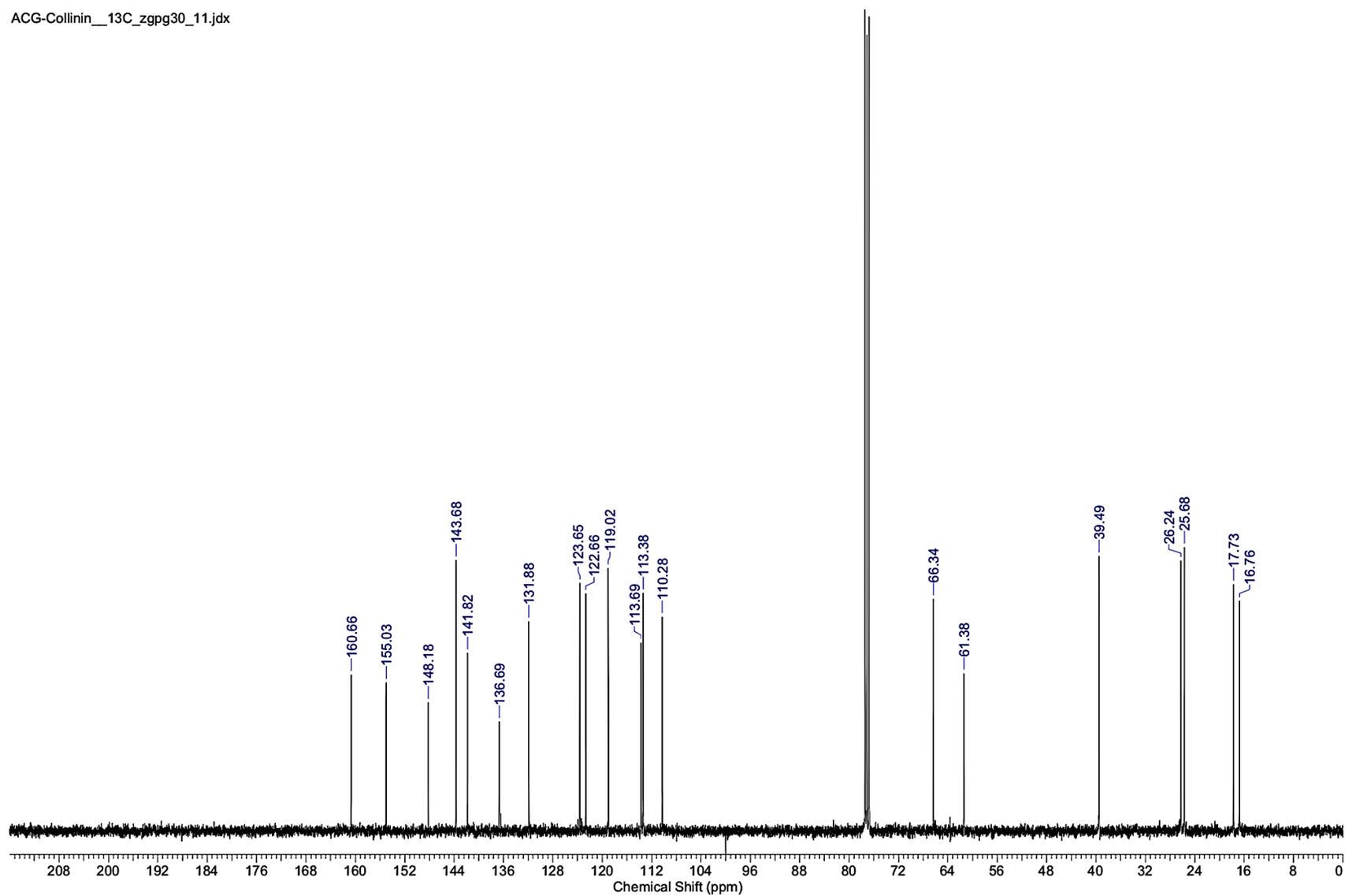


Fig.S8. ¹³C NMR spectrum of collinin (10).

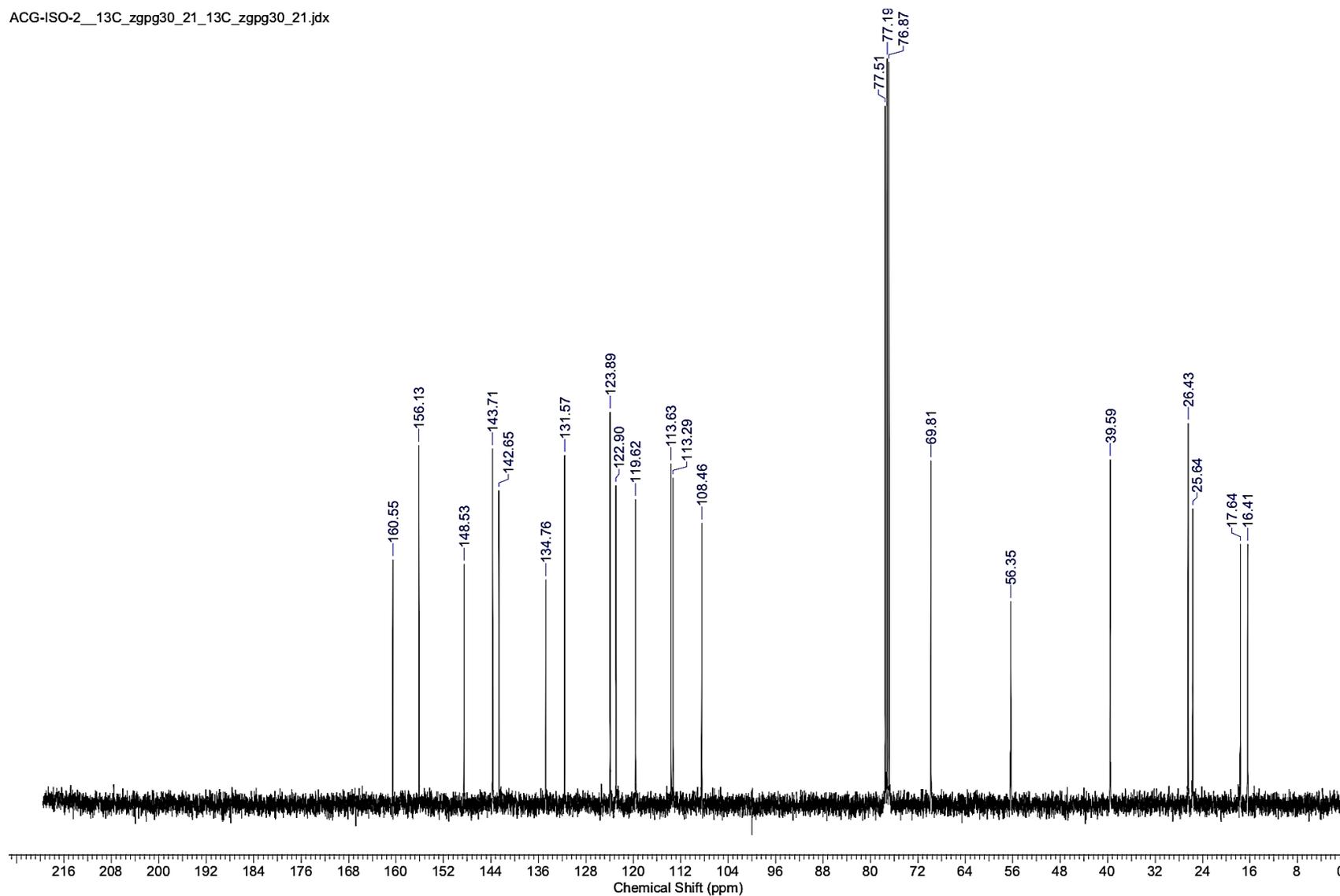


Fig.S9. ^{13}C NMR spectrum of isocollinin (11).

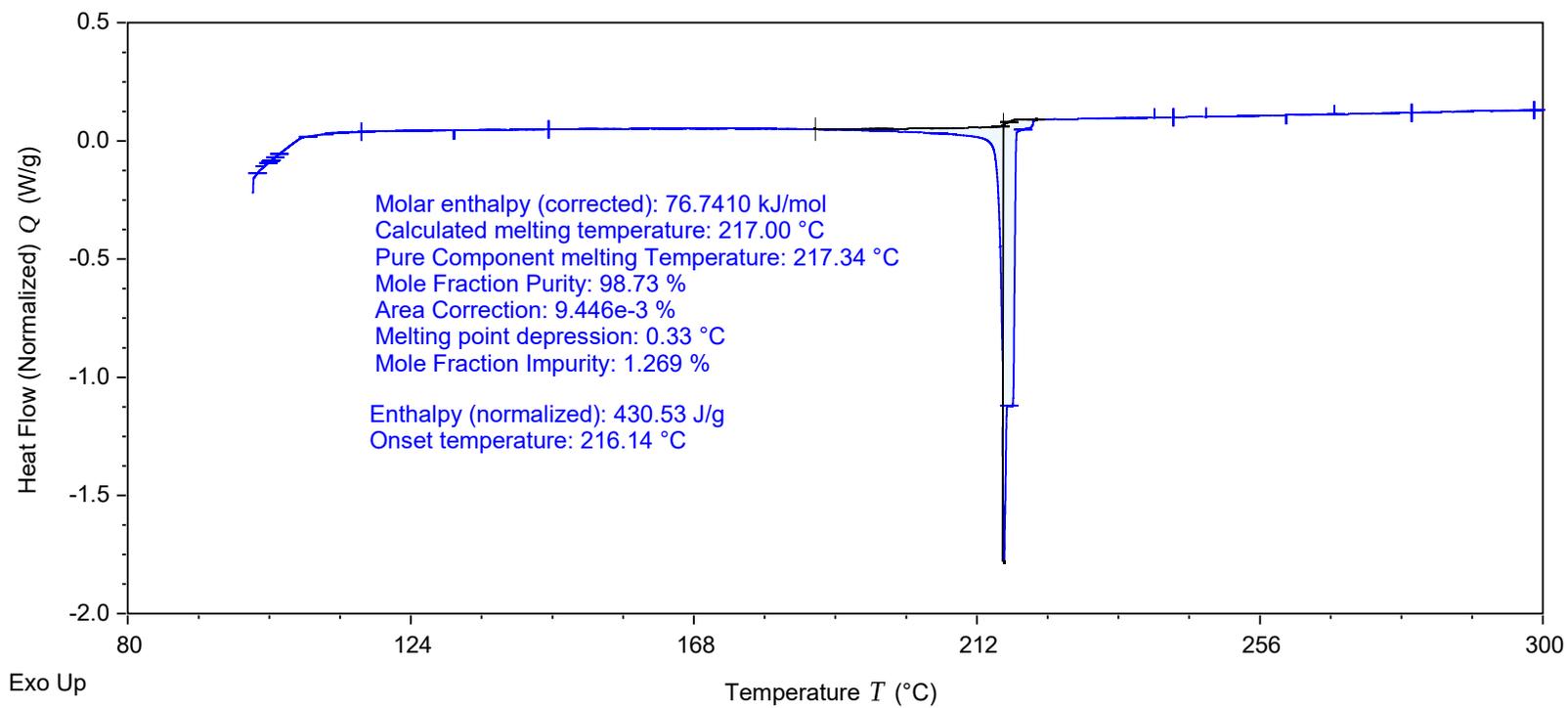


Fig.S10. Thermogram of Anthracene.

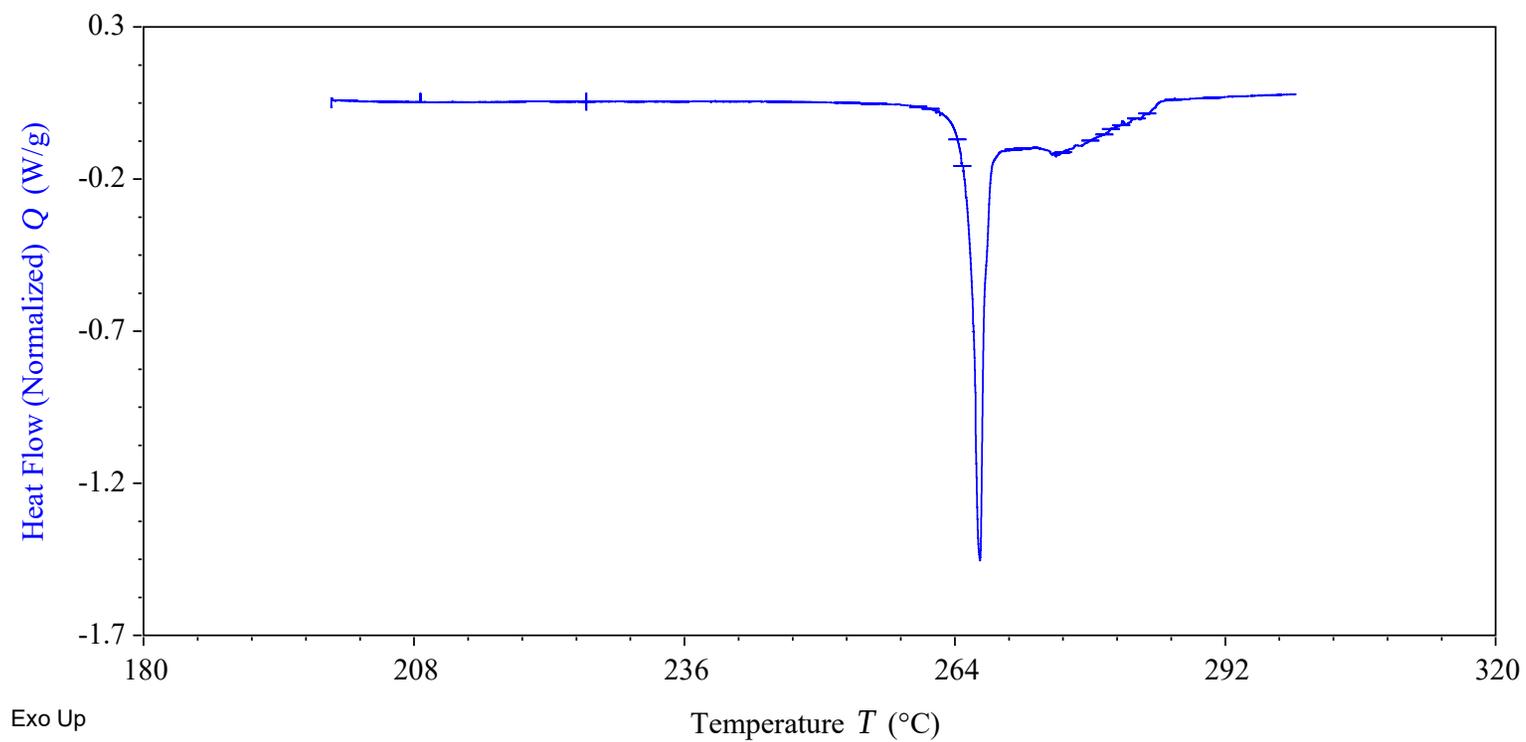


Fig.S11. Thermogram of Daphnetin (3).

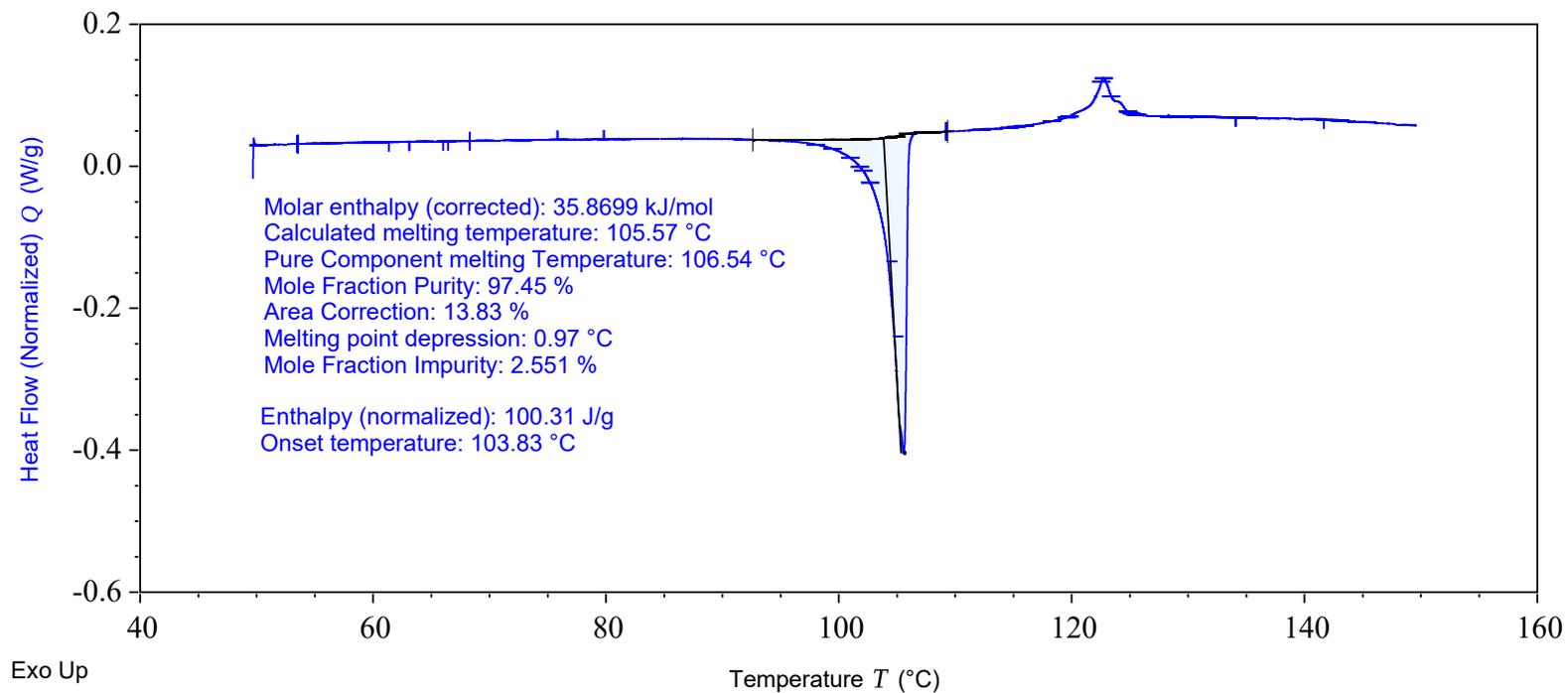


Fig.S12. Thermogram of the precursor of isocollinin isomer, 7-hydroxy 8-geranyloxycoumarin (8).

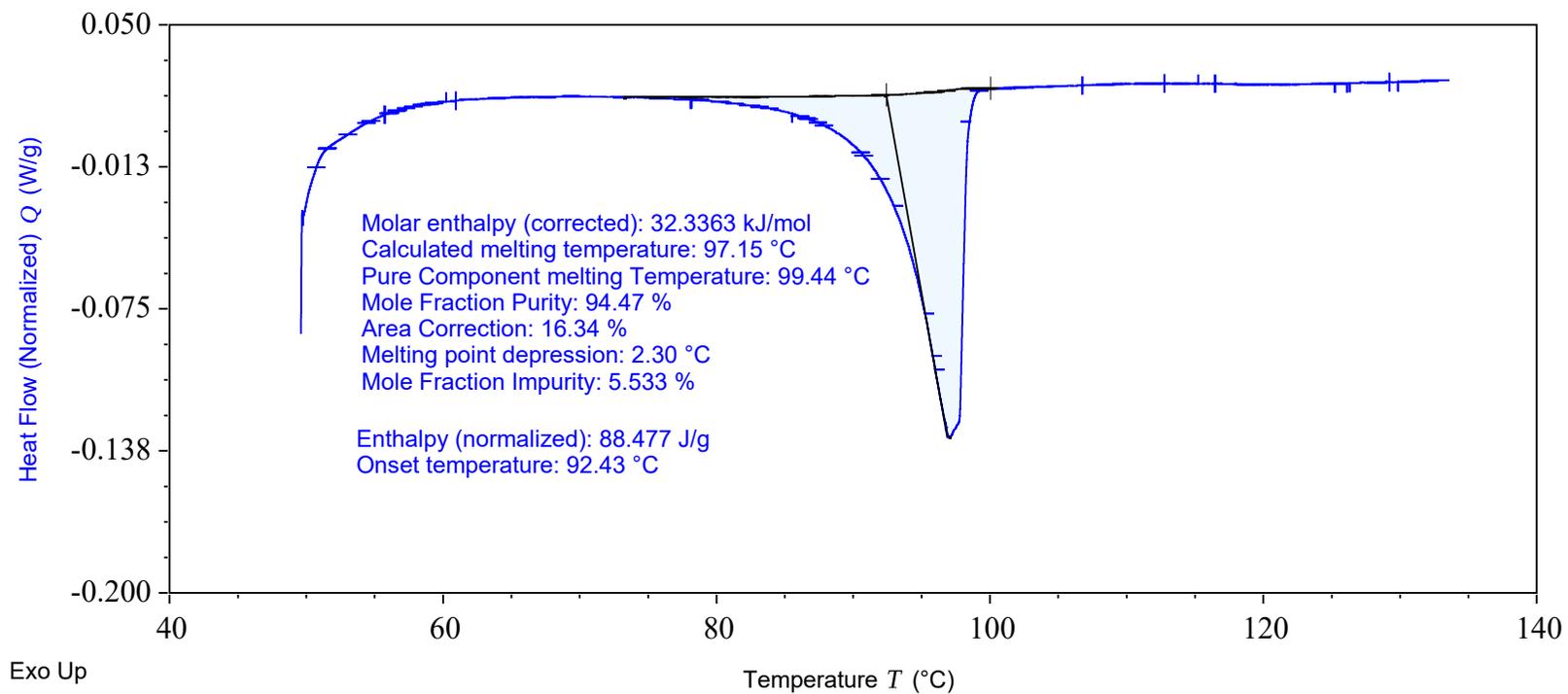


Fig.S13. Thermogram of the precursor of collinin isomer, 7-geranyloxy 8-hydroxyacoumarin (9).

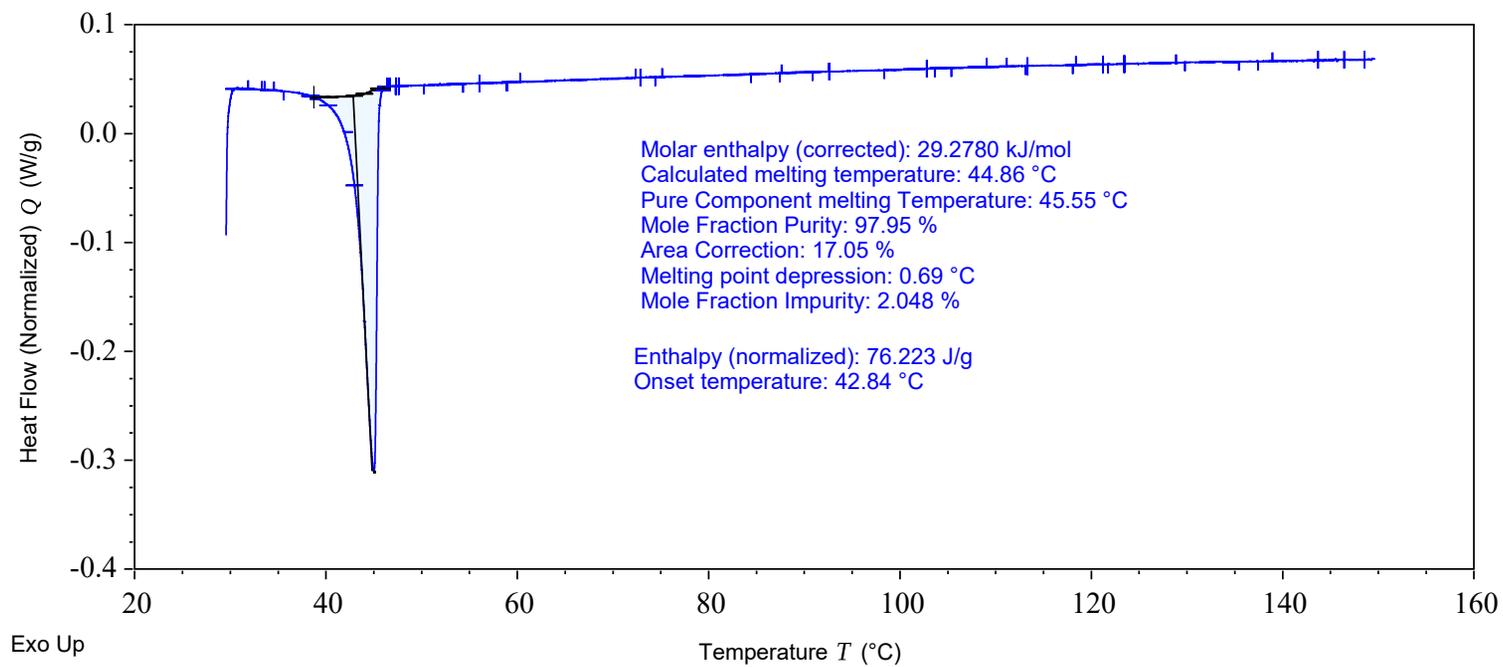


Fig.S14. Thermogram of collinin (10).

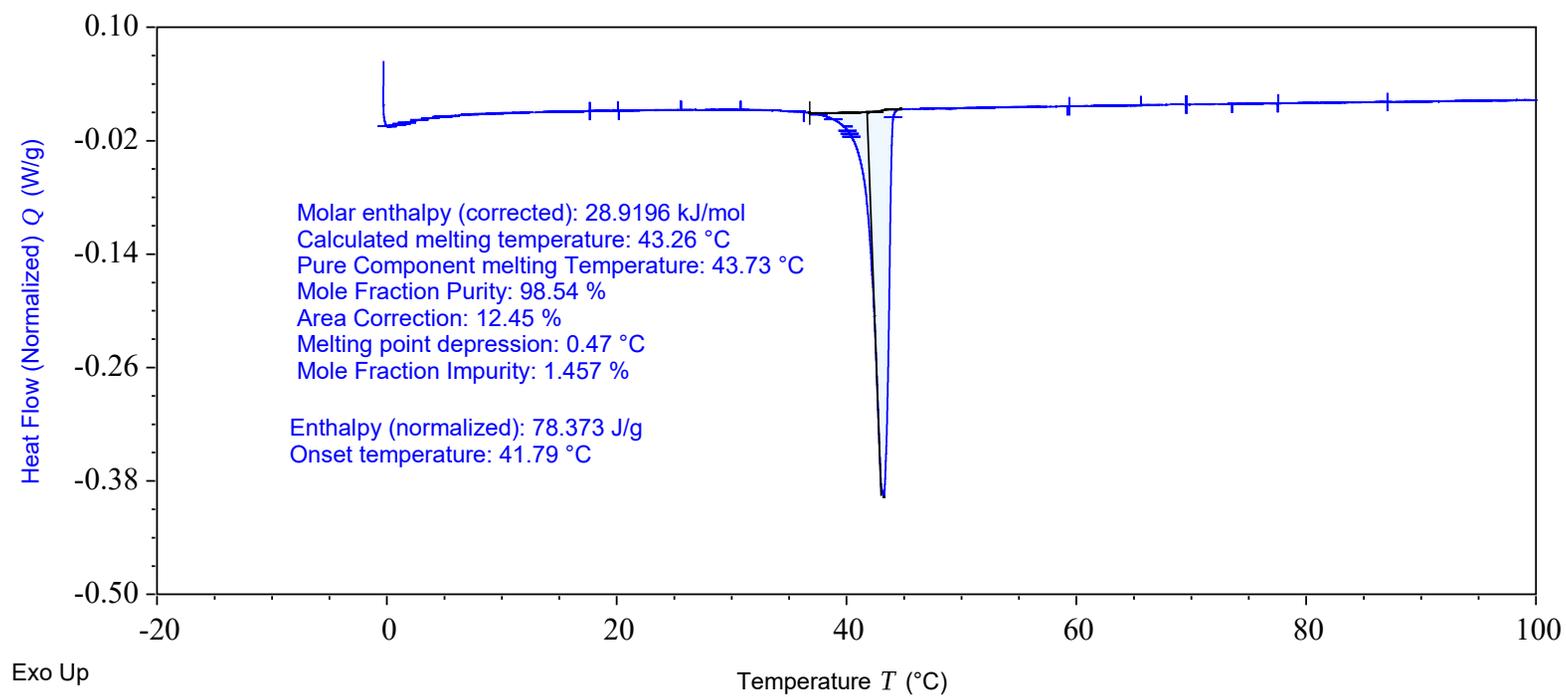


Fig.S15. Thermogram of isocollinin (11).