



Supplementary Information

Metabolization of Insecticidal Amides from Leaves of *Piper tuberculatum* by *Heraclydes hectorides* and *Naupactus bipes*

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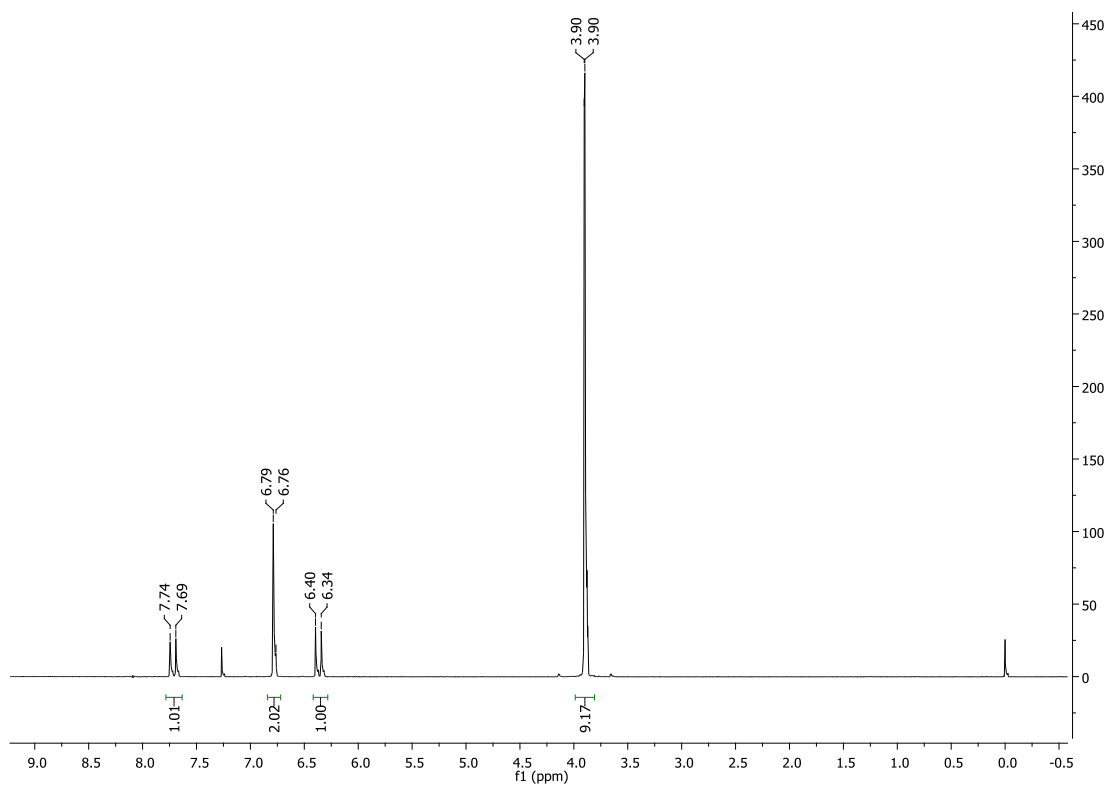


Figure S1. ¹H NMR spectrum (300 MHz, CDCl₃) of 3,4,5-trimethoxycinnamic acid (**8**).

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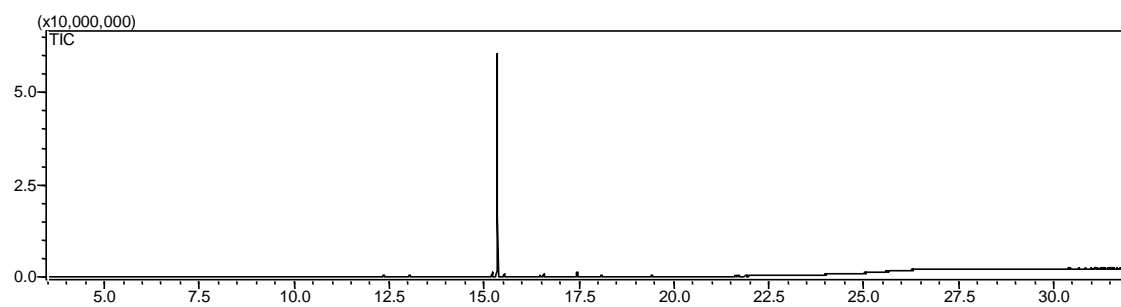


Figure S2. GC-MS chromatogram of 3,4,5-trimethoxycinnamic acid (**8**).

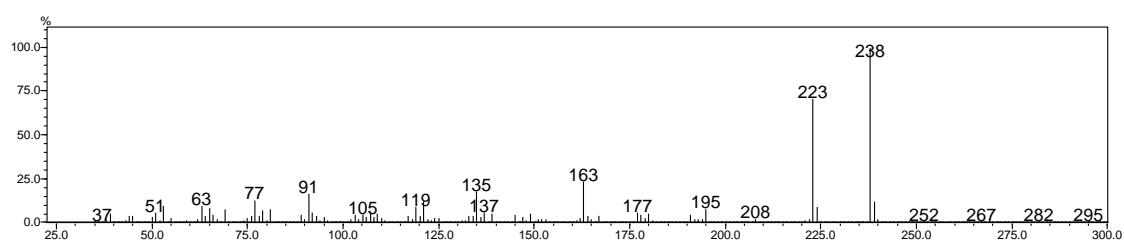


Figure S3. Mass spectrum (EI) of 3,4,5-trimethoxycinnamic acid (**8**).

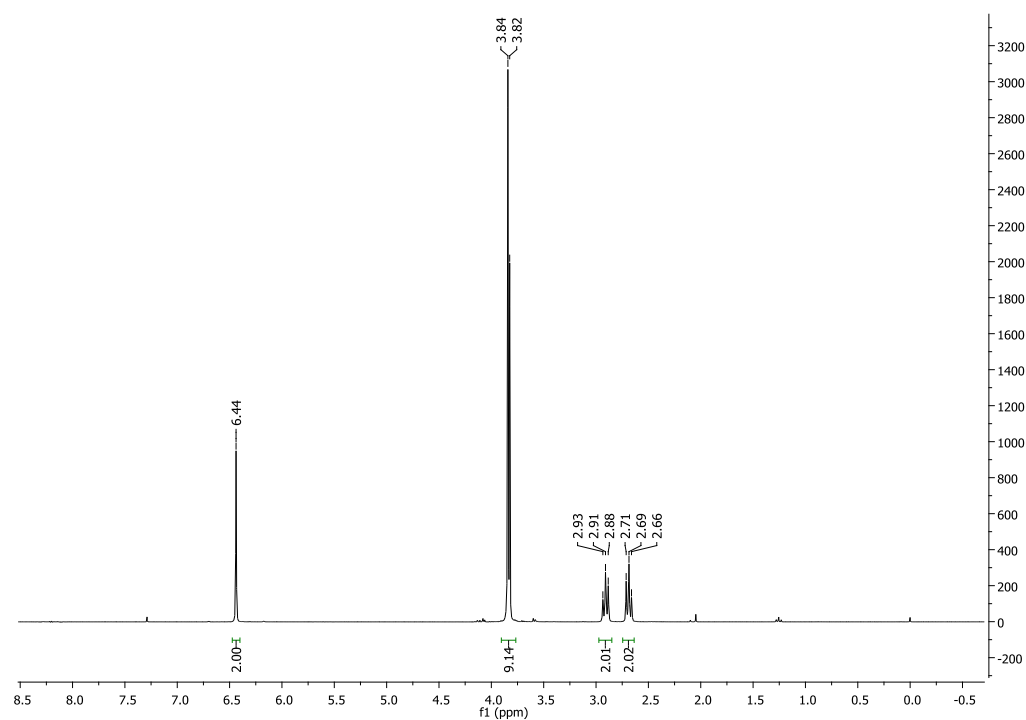


Figure S4. ^1H NMR spectrum (300 MHz, CDCl_3) of 3,4,5-trimethoxyphenyl-propanoic acid (**9**).

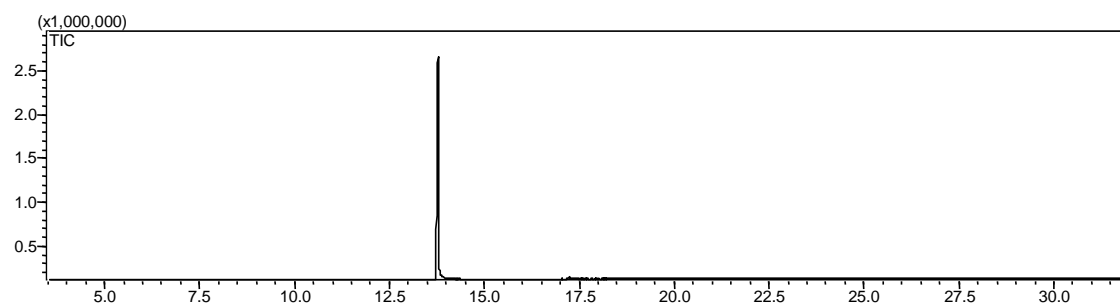


Figure S5. GC-MS chromatogram of 3,4,5-trimethoxyphenyl-propanoic acid (**9**).

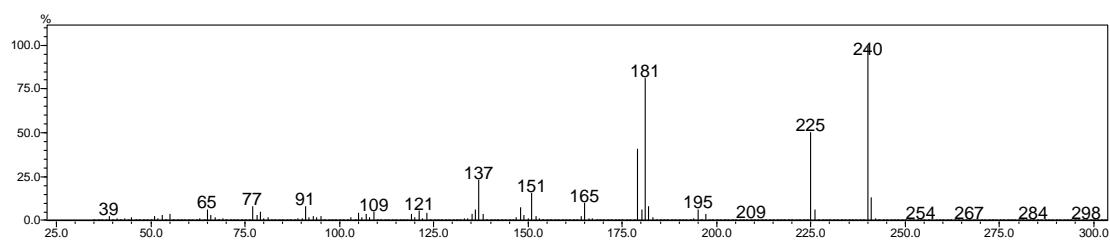


Figure S6. Mass spectrum (EI) of 3,4,5-trimethoxyphenyl-propanoic acid (**9**).

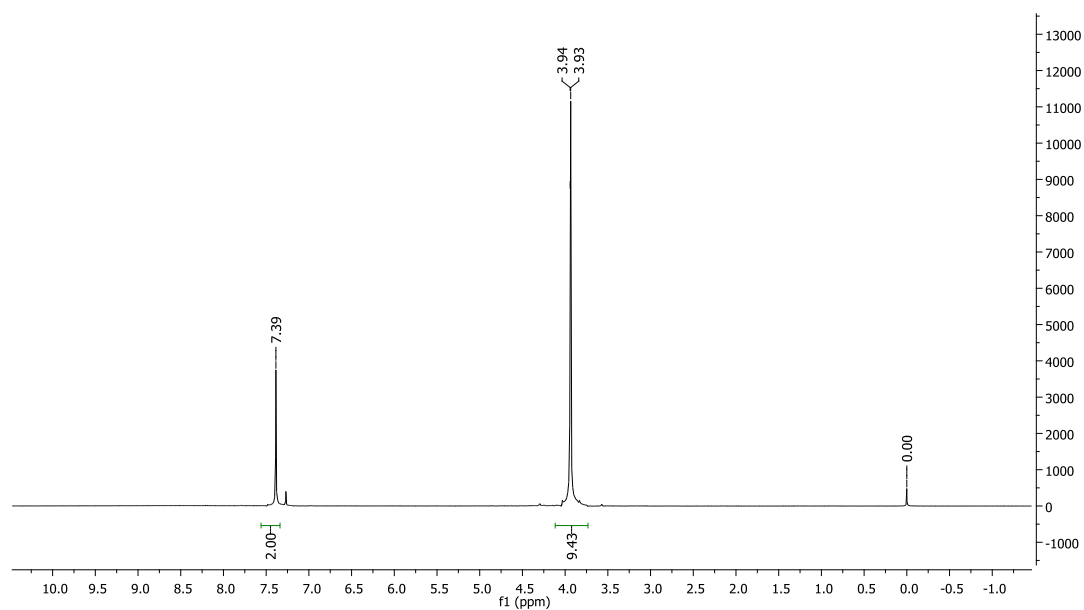


Figure S7. ^1H NMR spectrum (300 MHz, CDCl_3) of 3,4,5-trimethoxybenzoic acid (**10**).

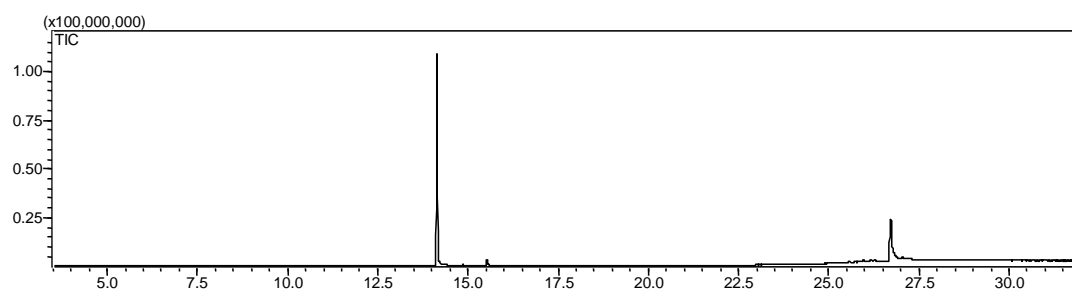


Figure S8. GC-MS chromatogram of 3,4,5-trimethoxybenzoic acid (**10**).

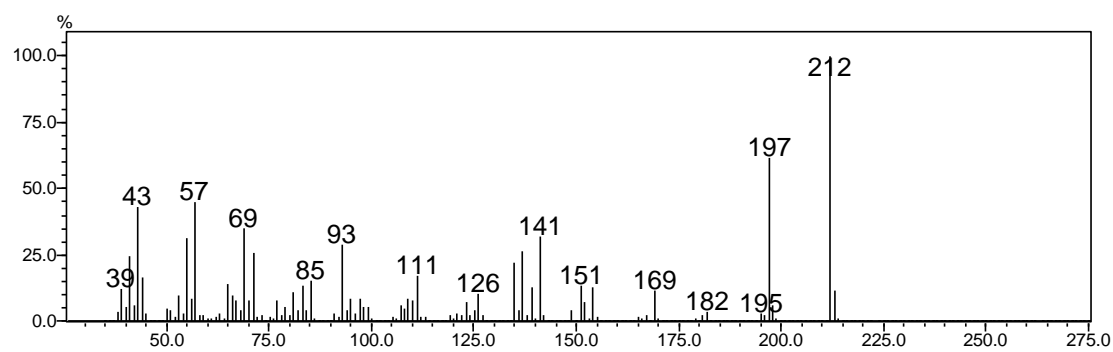


Figure S9. Mass spectrum (EI) of 3,4,5-trimethoxybenzoic acid (**10**).

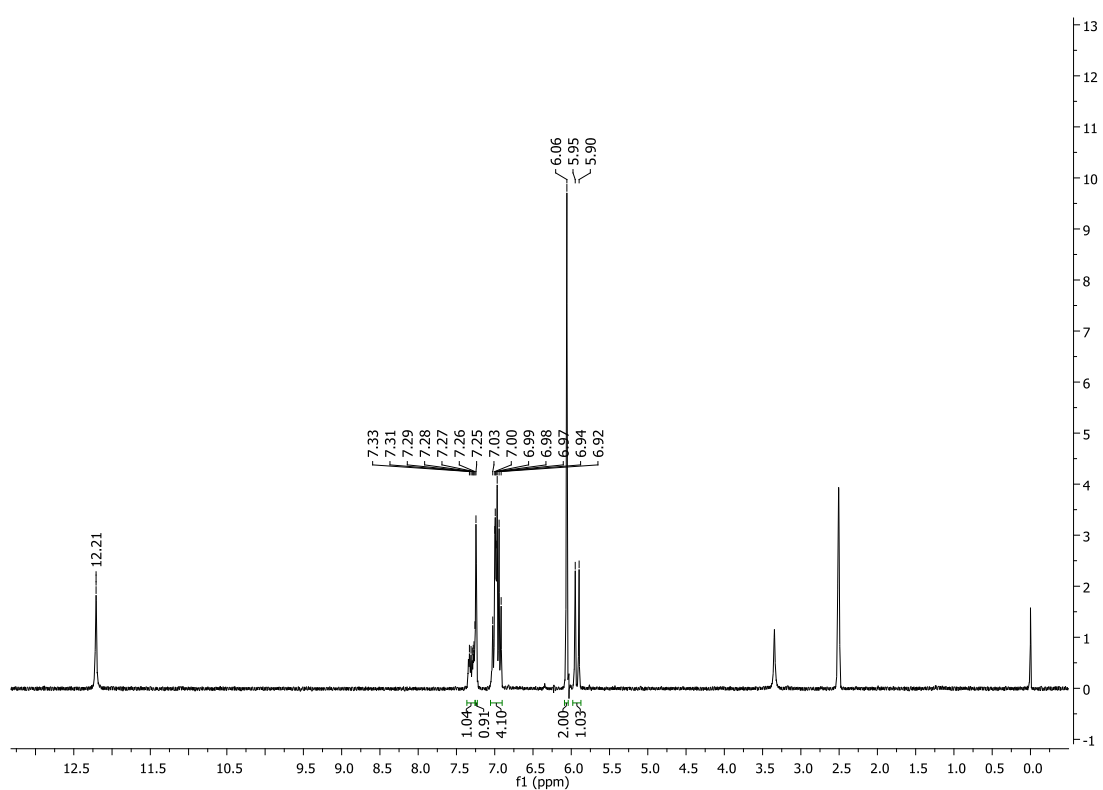


Figure S10. ¹H NMR spectrum (300 MHz, MeOD) of piperic acid (**11**).

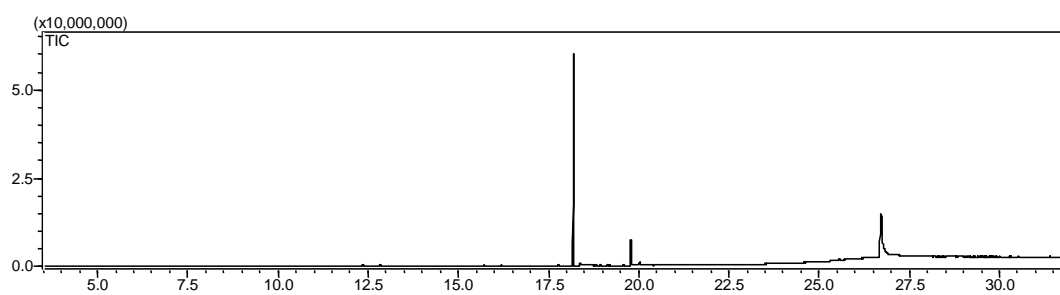


Figure S11. GC-MS chromatogram of piperic acid (**11**).

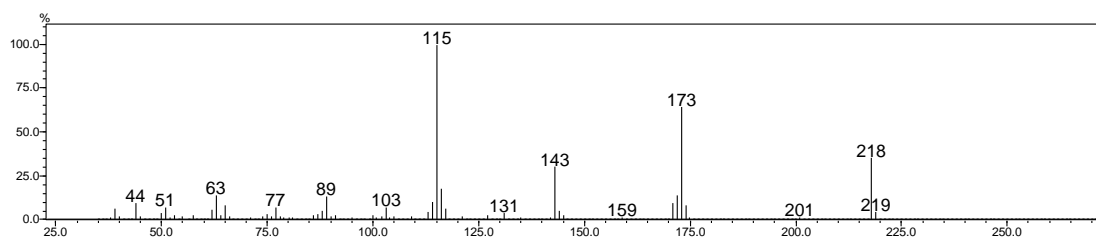


Figure S12. Mass spectrum (EI) of piperic acid (11).

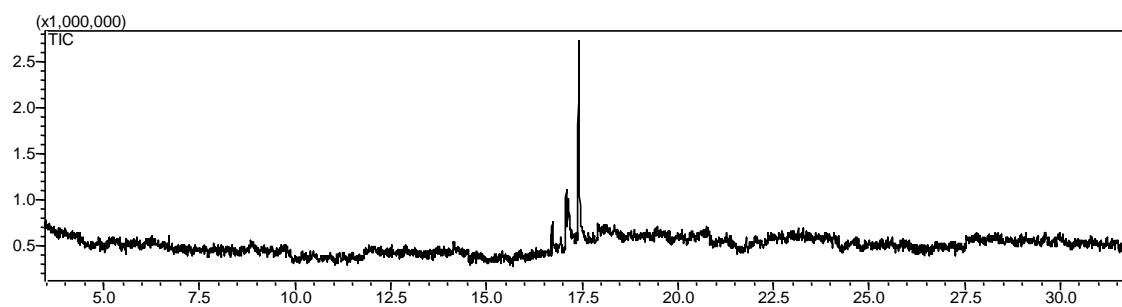


Figure S13. GC-MS chromatogram of 7,8-dihydropiperic acid (12).

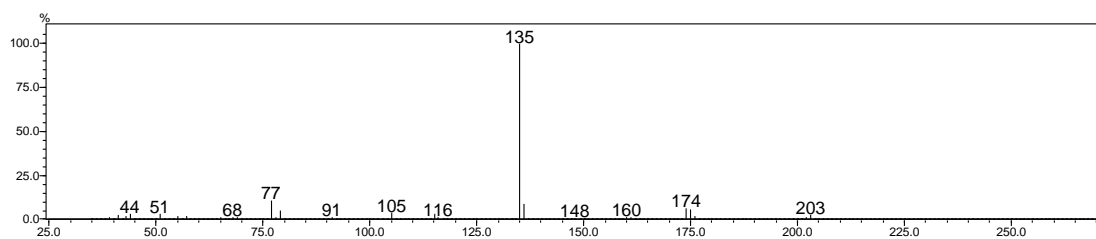


Figure S14. Mass spectrum (EI) of 7,8-dihydropiperic acid (12).

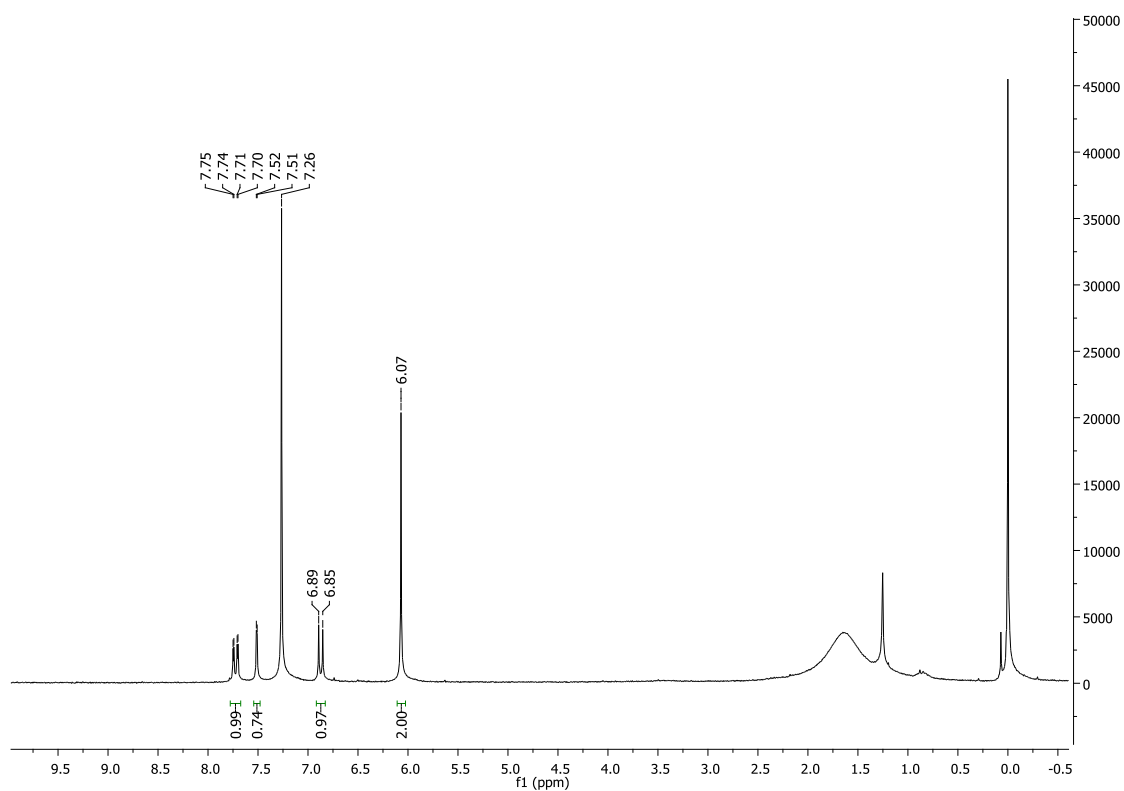


Figure S15. ^1H NMR spectrum (300 MHz, CDCl_3) of piperonylic acid (**13**).

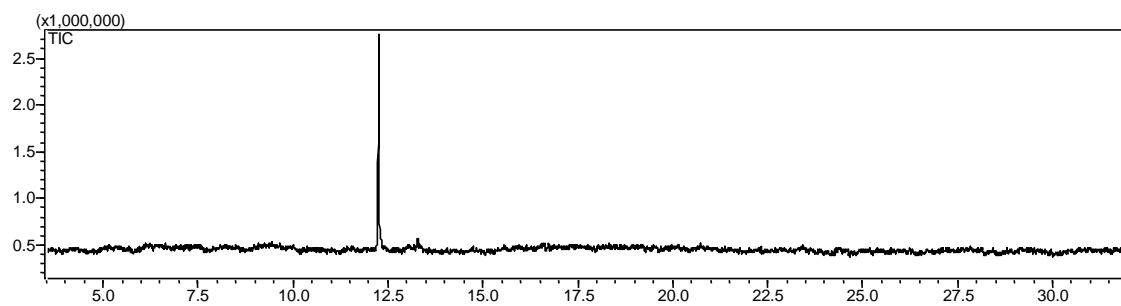


Figure S16. GC-MS chromatogram of piperonylic acid (**13**).

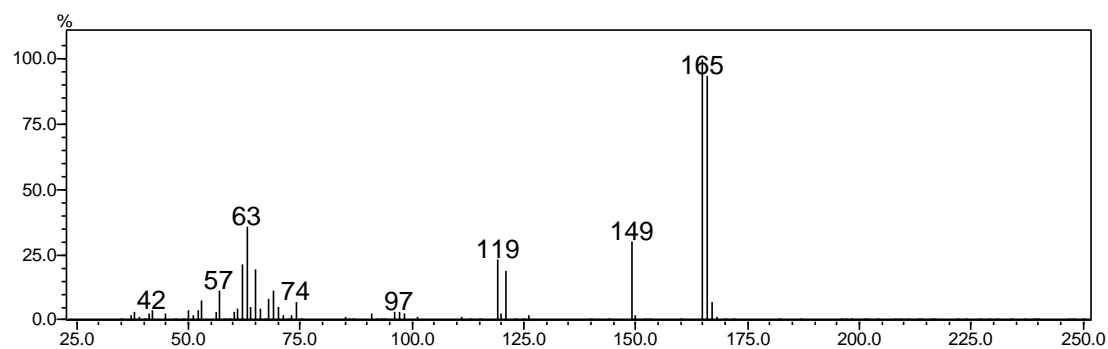


Figure S17. Mass spectrum (EI) of piperonylic acid (**13**).

