

Supplementary Information

Rodriguesic Acids, Modified Diketopiperazines from the Gastropod Mollusc *Pleurobranchus areolatus*

Fabio R. Pereira,^a Mario F. C. Santos,^a David E. Williams,^b Raymond J. Andersen,^b Vinicius Padula,^c Antonio G. Ferreira^d and Roberto G. S. Berlinck ^{*a}

^aInstituto de Química de São Carlos, Universidade de São Paulo,
 CP 780, 13560-970 São Carlos-SP, Brazil

^bDepartments of Chemistry and Earth, Ocean & Atmospheric Sciences,
 University of British Columbia, Vancouver, BC, V6T 1Z1, Canada

^cSNSB-Zoologische Staatssammlung München, Münchhausenstrasse 21,
 81247 München, Germany and Department Biology II and GeoBio-Center,
 Ludwig-Maximilians-Universität München, Germany

^dDepartamento de Química, Universidade Federal de São Carlos,
 Rodovia Washington Luiz, km 235, 13565-905 São Carlos-SP, Brazil

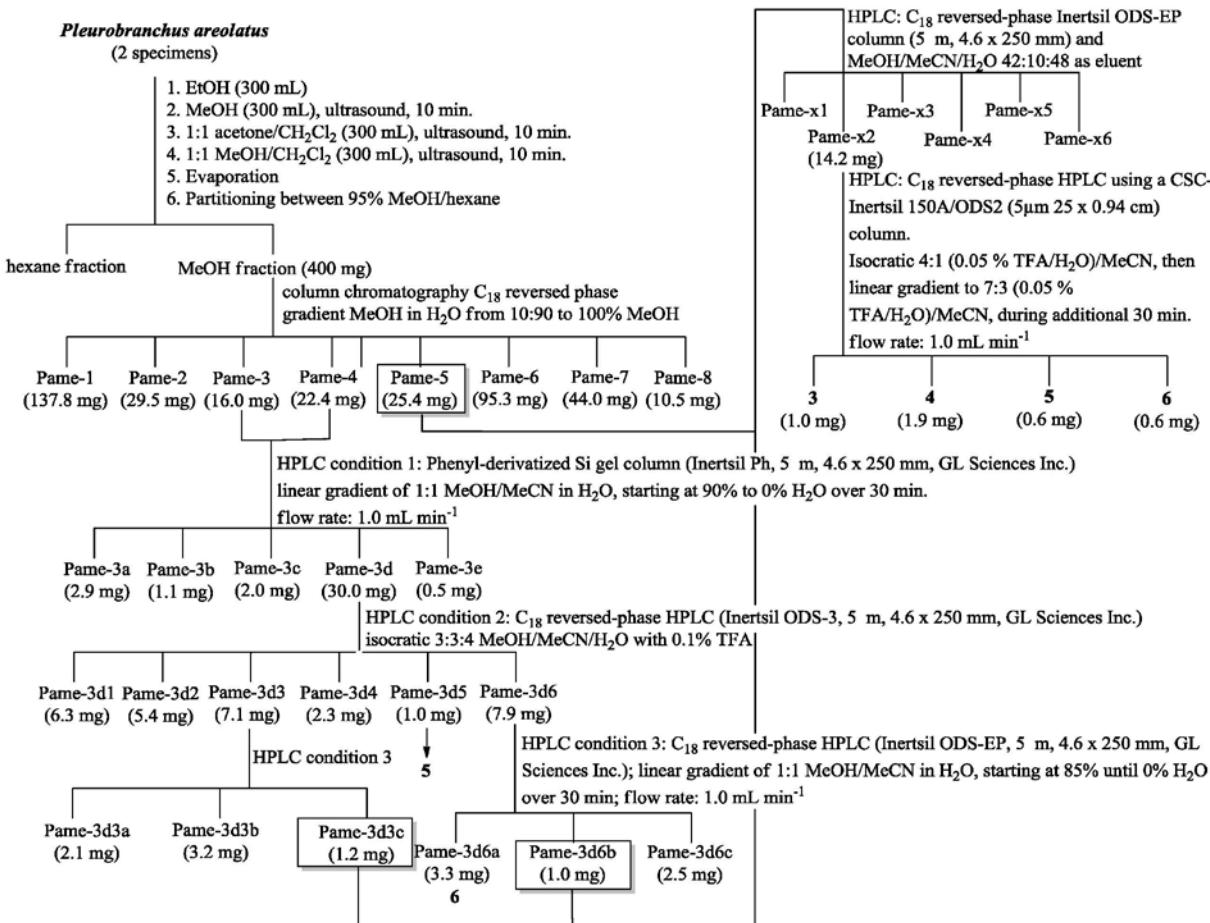


Figure S1. Separation scheme for the isolation of rodriguesic acid derivatives 3-6.

*e-mail: rgsberlinck@iqsc.usp.br

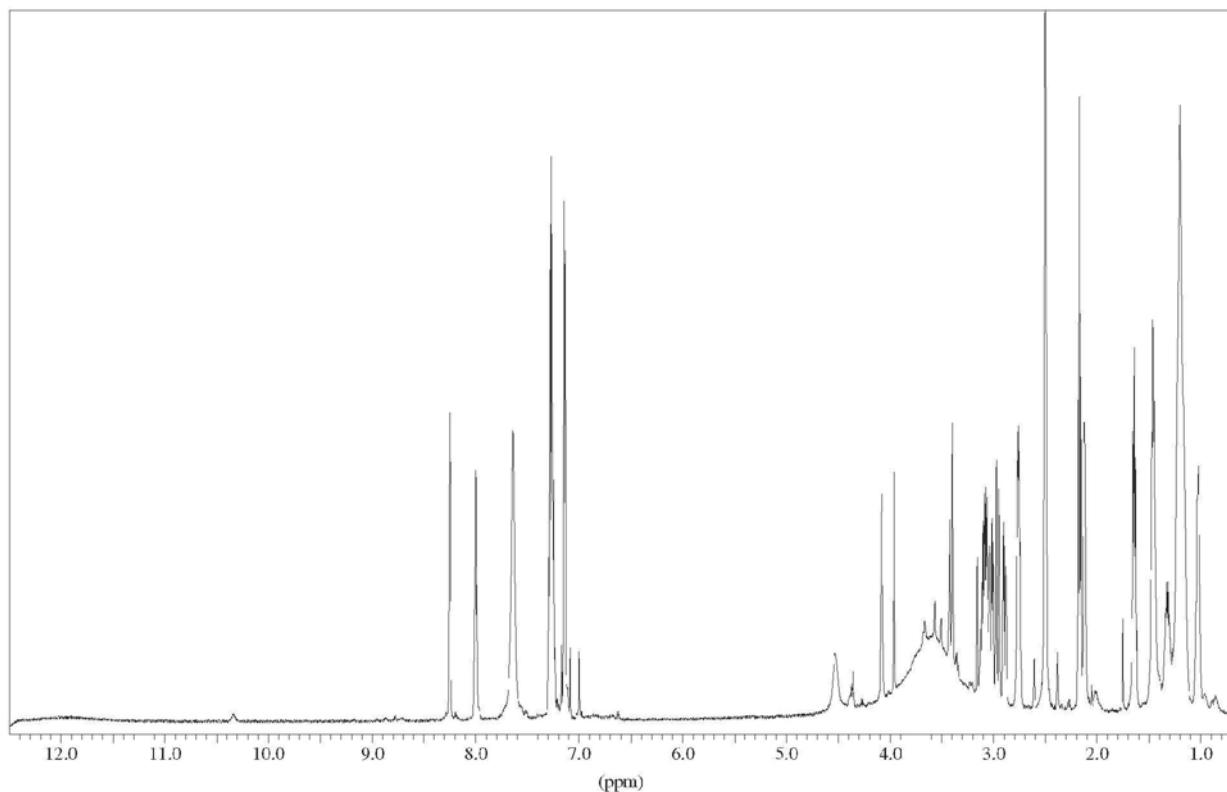


Figure S2. ¹H NMR spectrum of rodriguesic acid (3) in DMSO-*d*₆ at 600 MHz.

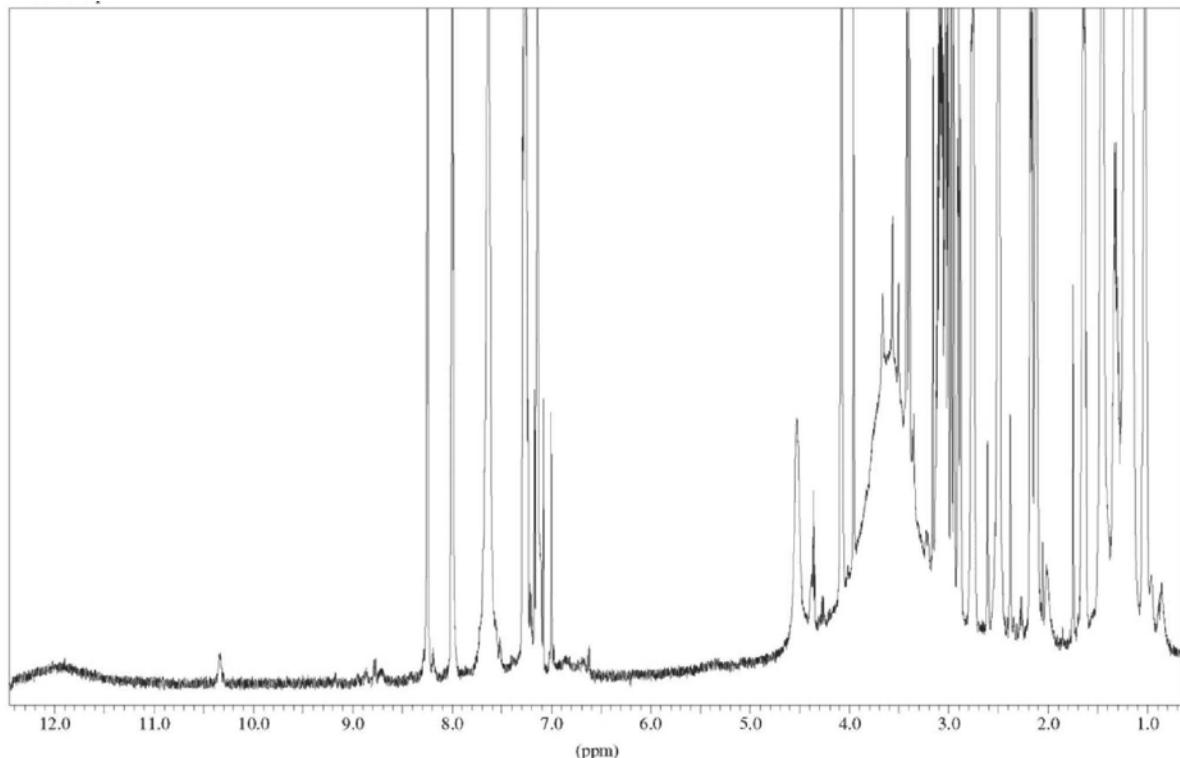


Figure S3. Expansion of the ¹H NMR spectrum of rodriguesic acid (3) in DMSO-*d*₆ at 600 MHz.

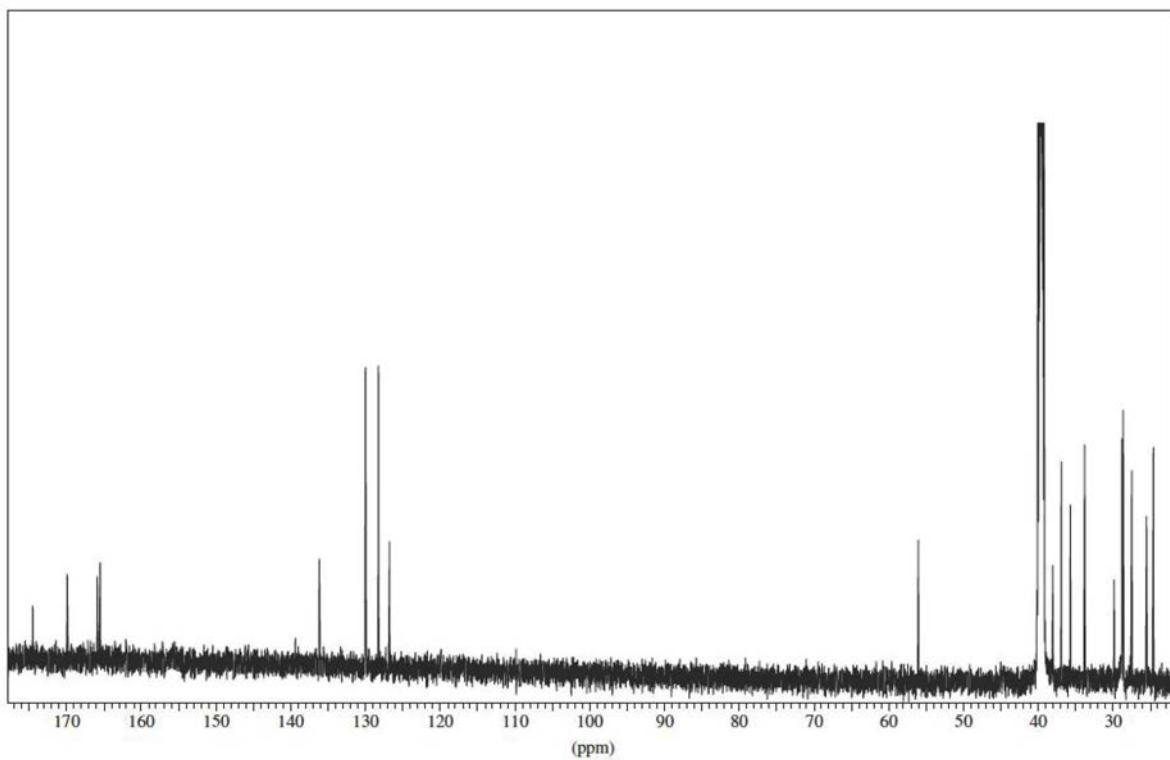


Figure S4. ¹³C NMR spectrum of rodriguesic acid (**3**) in DMSO-*d*₆ at 150 MHz.

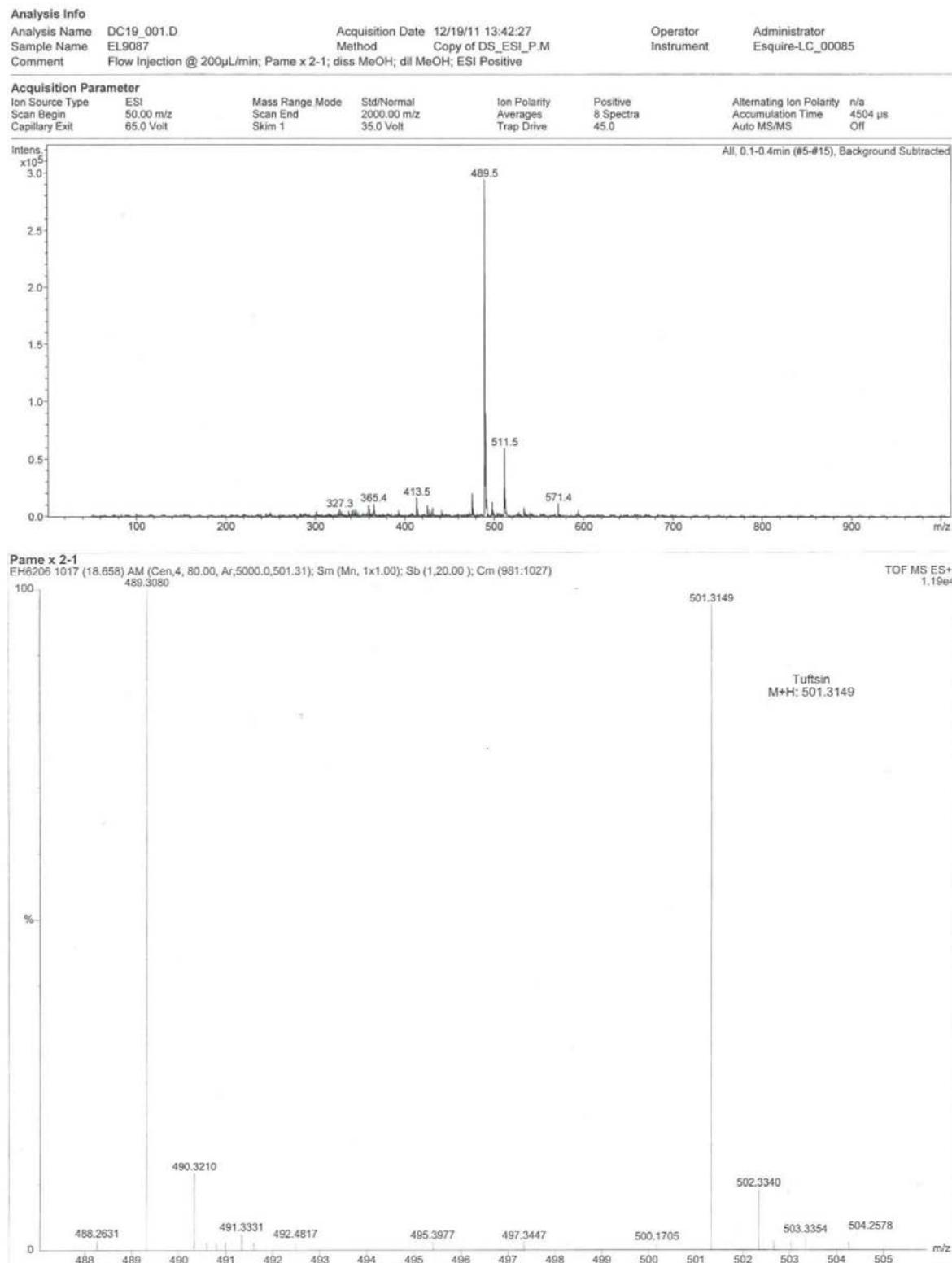


Figure S5. LR-ESI (top) and HR-ESI (bottom) mass spectra of rodriguesic acid (**3**).

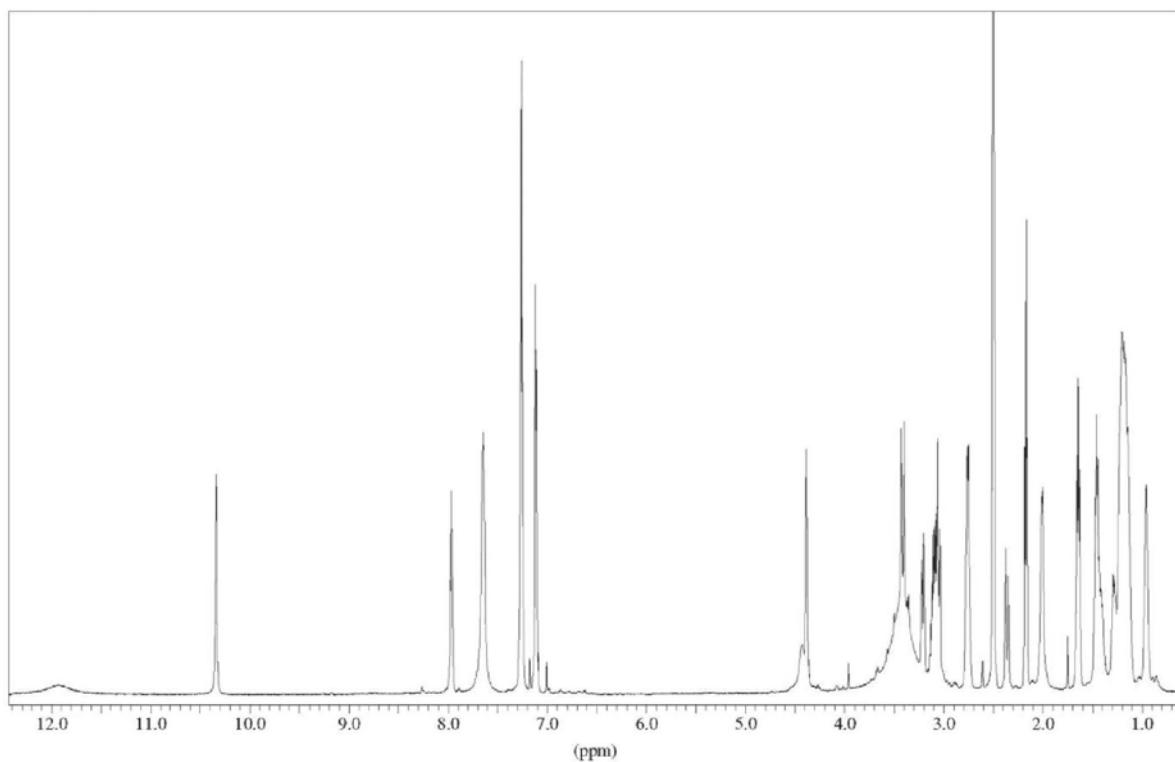


Figure S6. ¹H NMR spectrum of the rodriguesic acid hydroxamate (**4**) in DMSO-*d*₆ at 600 MHz.

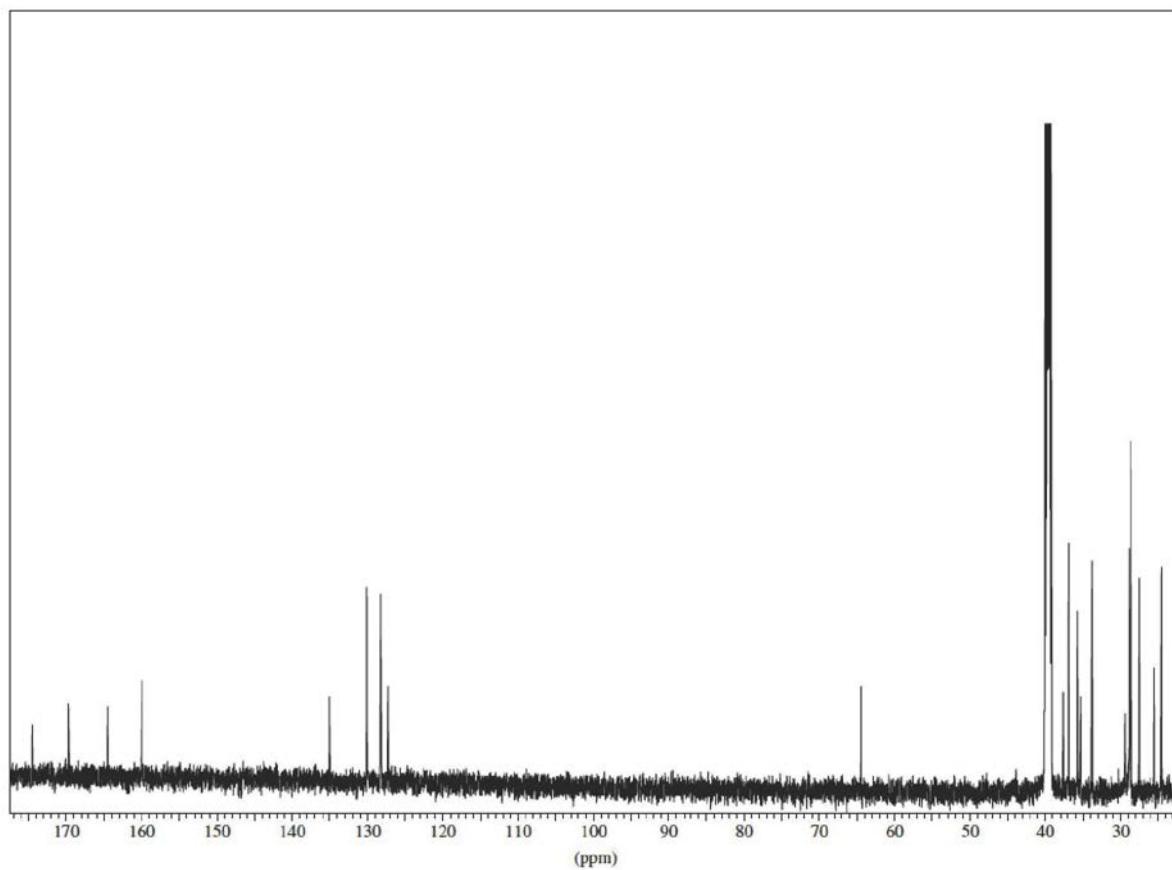


Figure S7. ¹³C NMR spectrum of the rodriguesic acid hydroxamate (**4**) in DMSO-*d*₆ at 150 MHz.

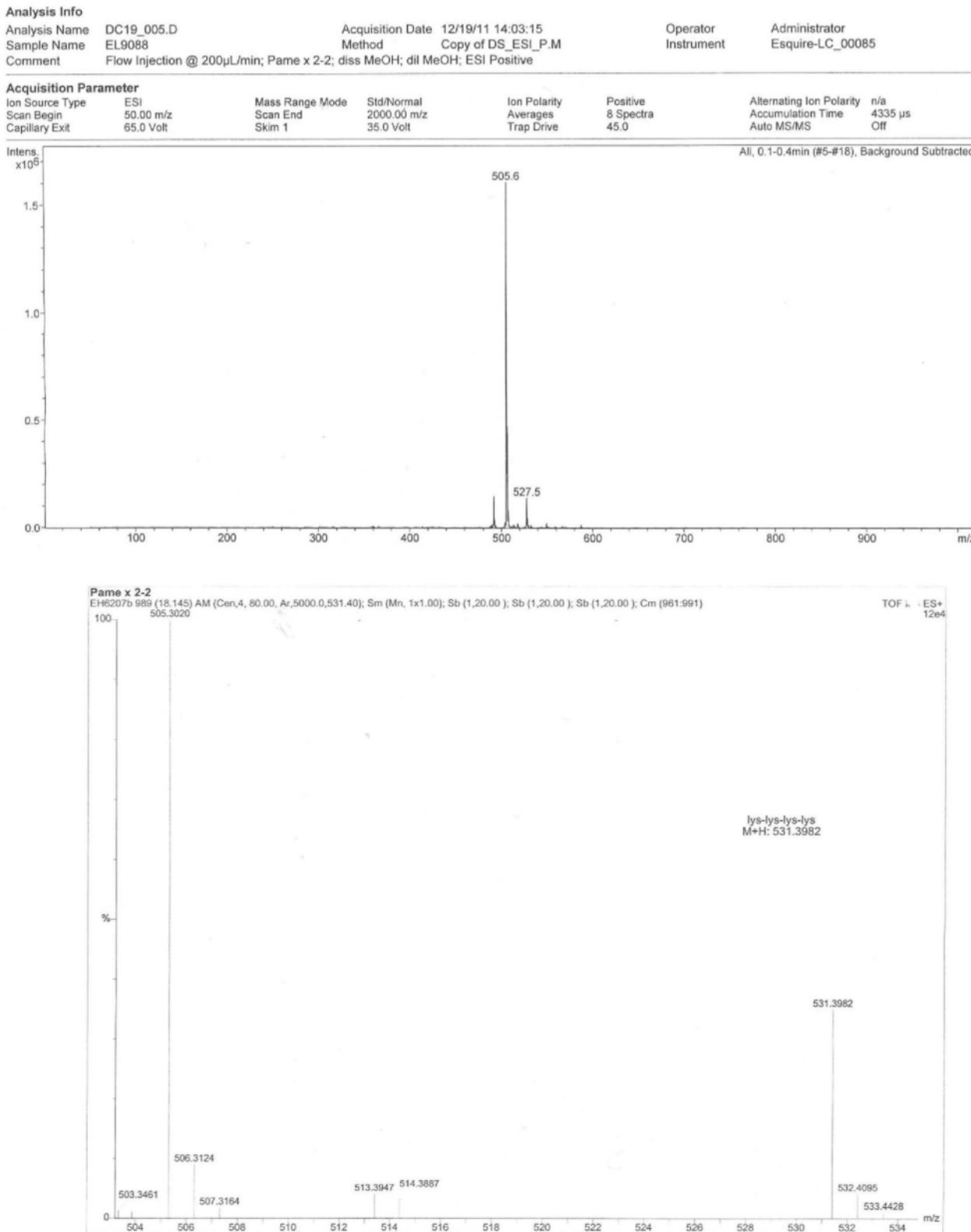


Figure S8. LR-ESI (top) and HR-ESI (bottom) mass spectra of the rodriguesic acid hydroxamate (**4**).

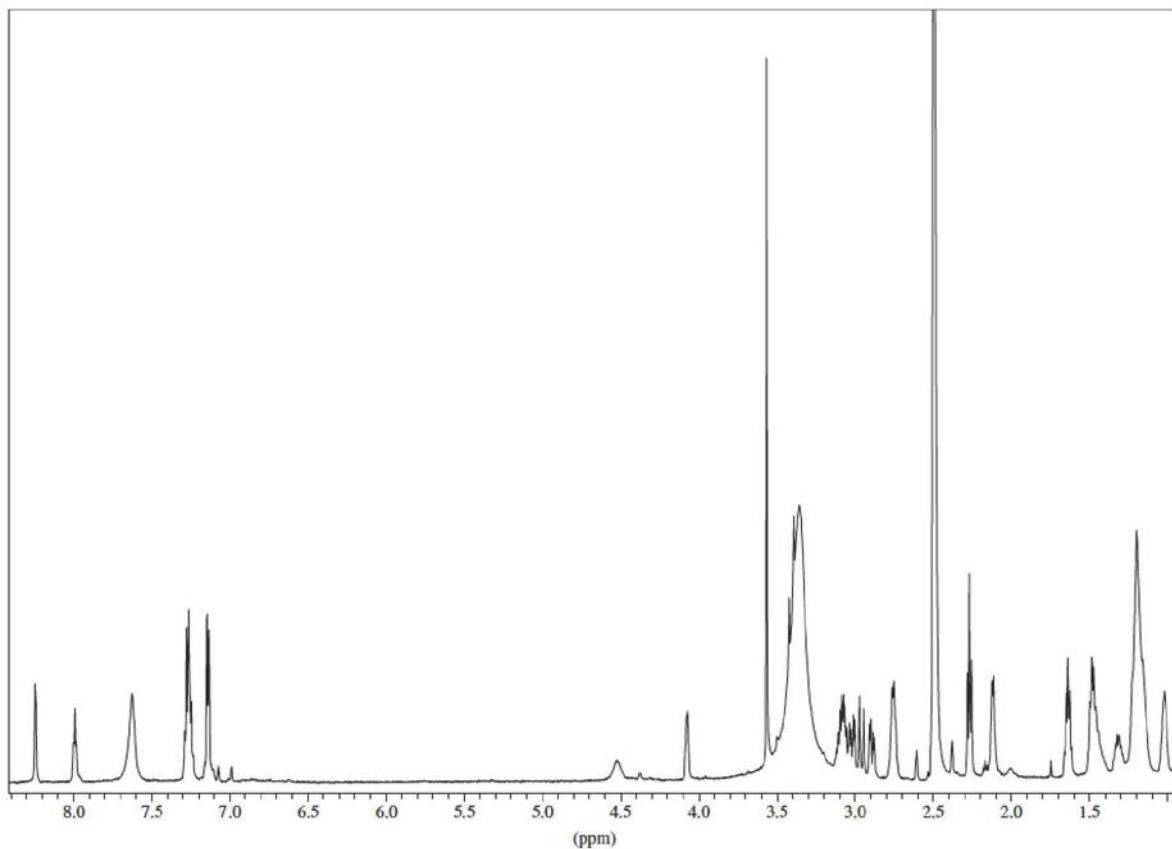


Figure S9. ¹H NMR spectrum of rodriguesic acid methyl ester (**5**) in DMSO-*d*₆ at 600 MHz.

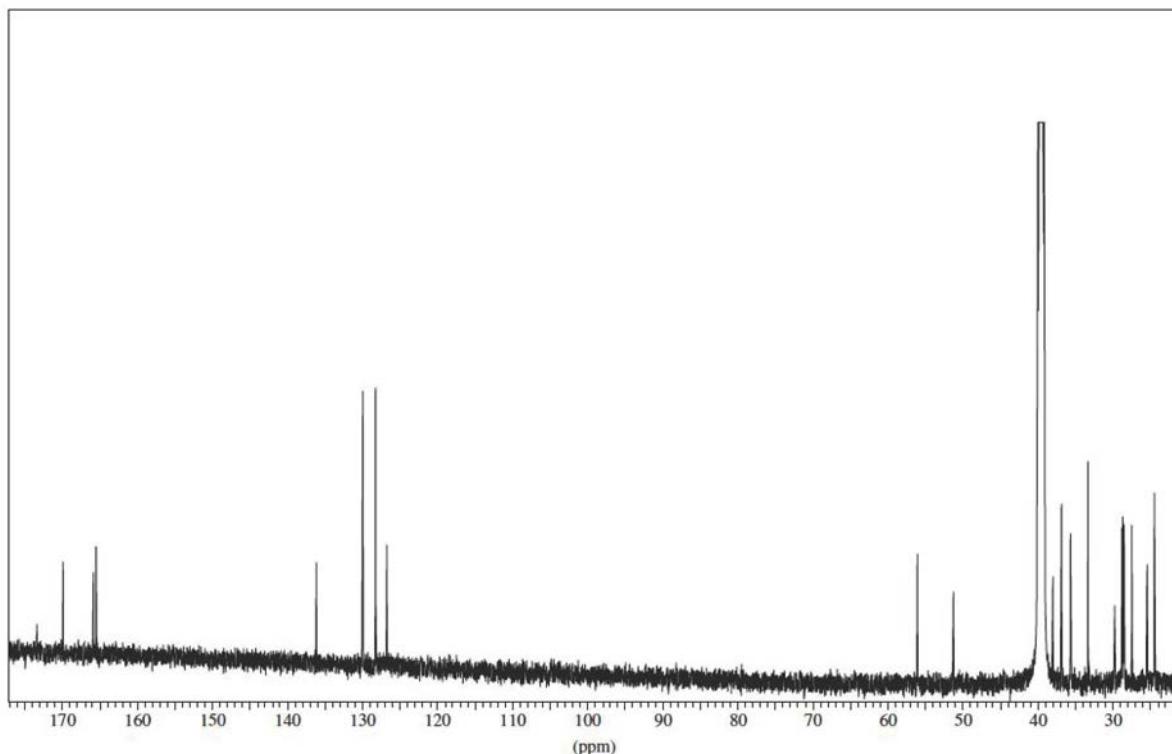


Figure S10. ¹³C NMR spectrum of the rodriguesic acid methyl ester (**5**) in DMSO-*d*₆ at 150 MHz.

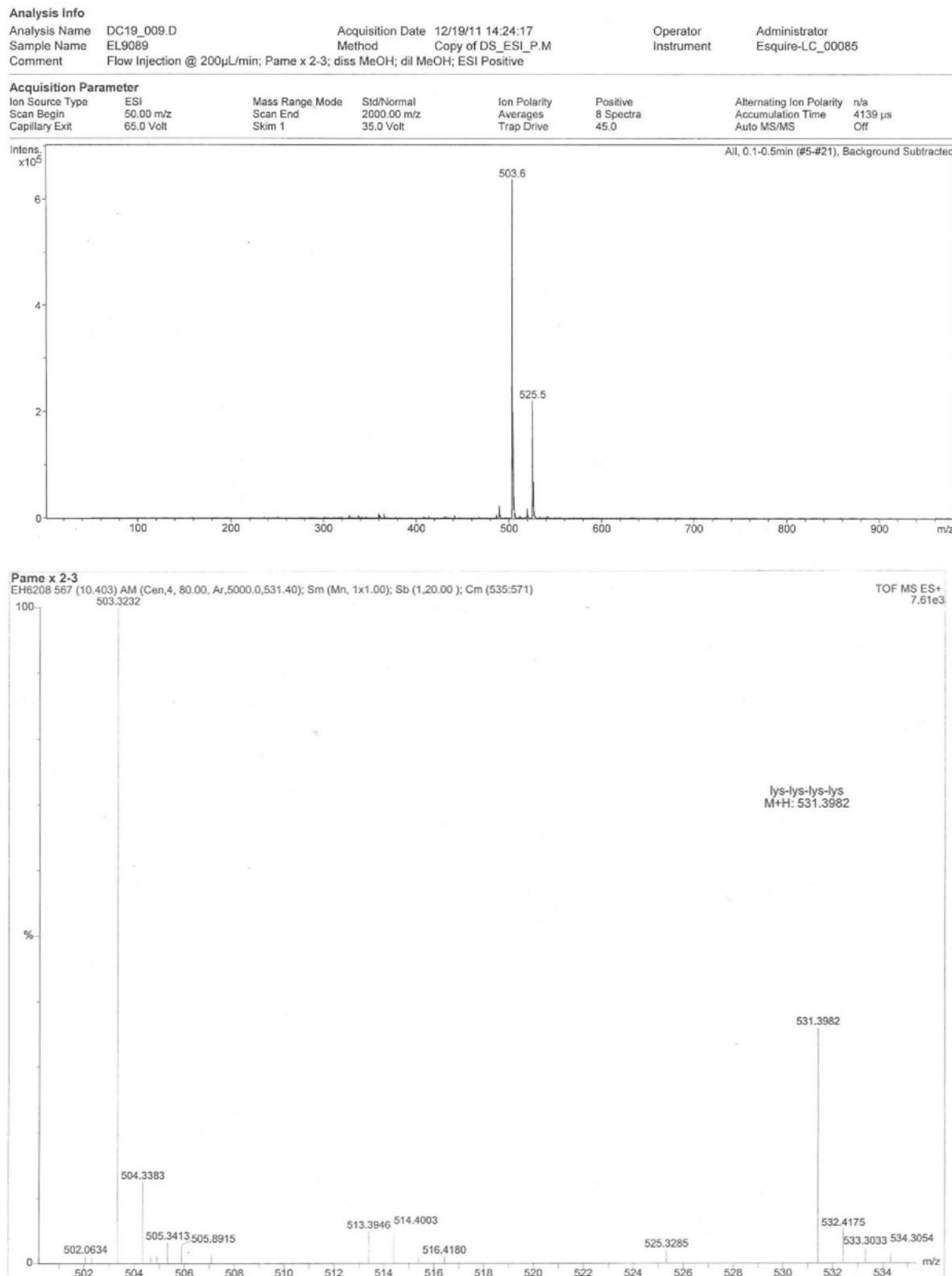


Figure S11. LR-ESI (top) and HR-ESI (bottom) mass spectra of the rodriguesic acid methyl ester (**5**).

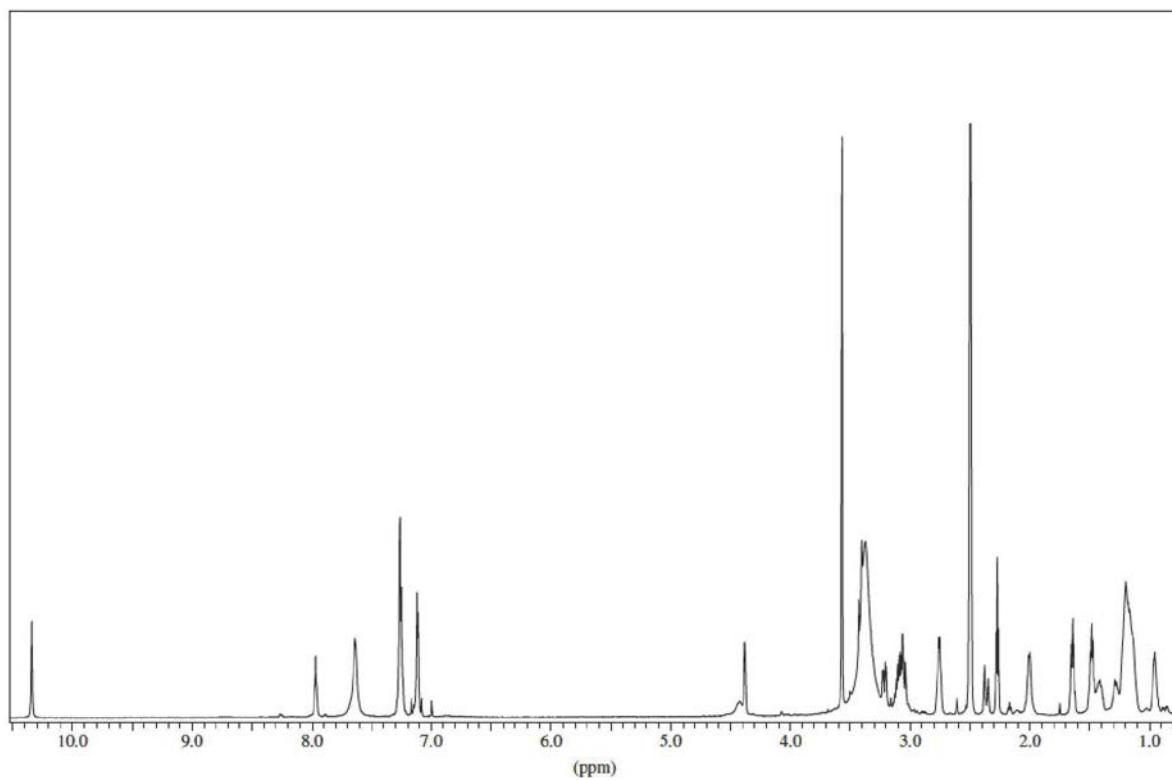


Figure S12. ¹H NMR spectrum of the methyl ester of the rodriguesic acid hydroxamate (**6**) in DMSO-*d*₆ at 600 MHz.

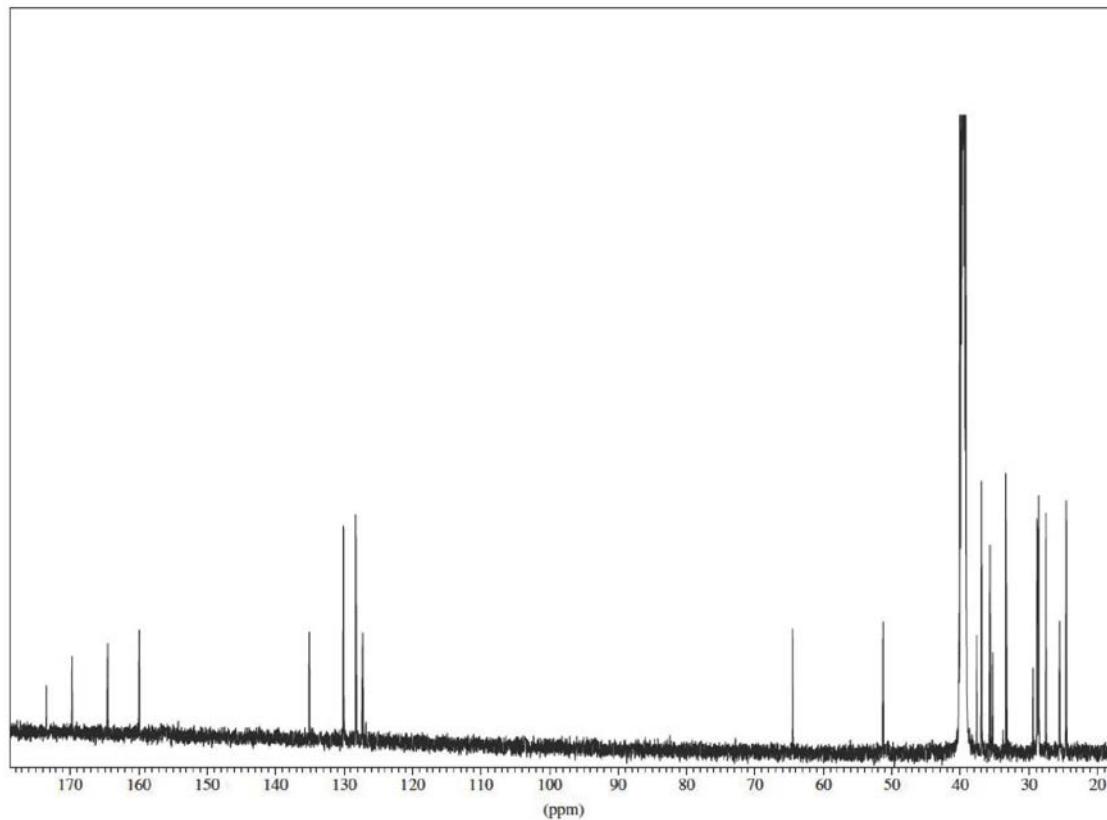


Figure S13. ¹³C NMR spectrum of methyl ester of the rodriguesic acid hydroxamate (**6**) in DMSO-*d*₆ at 150 MHz.

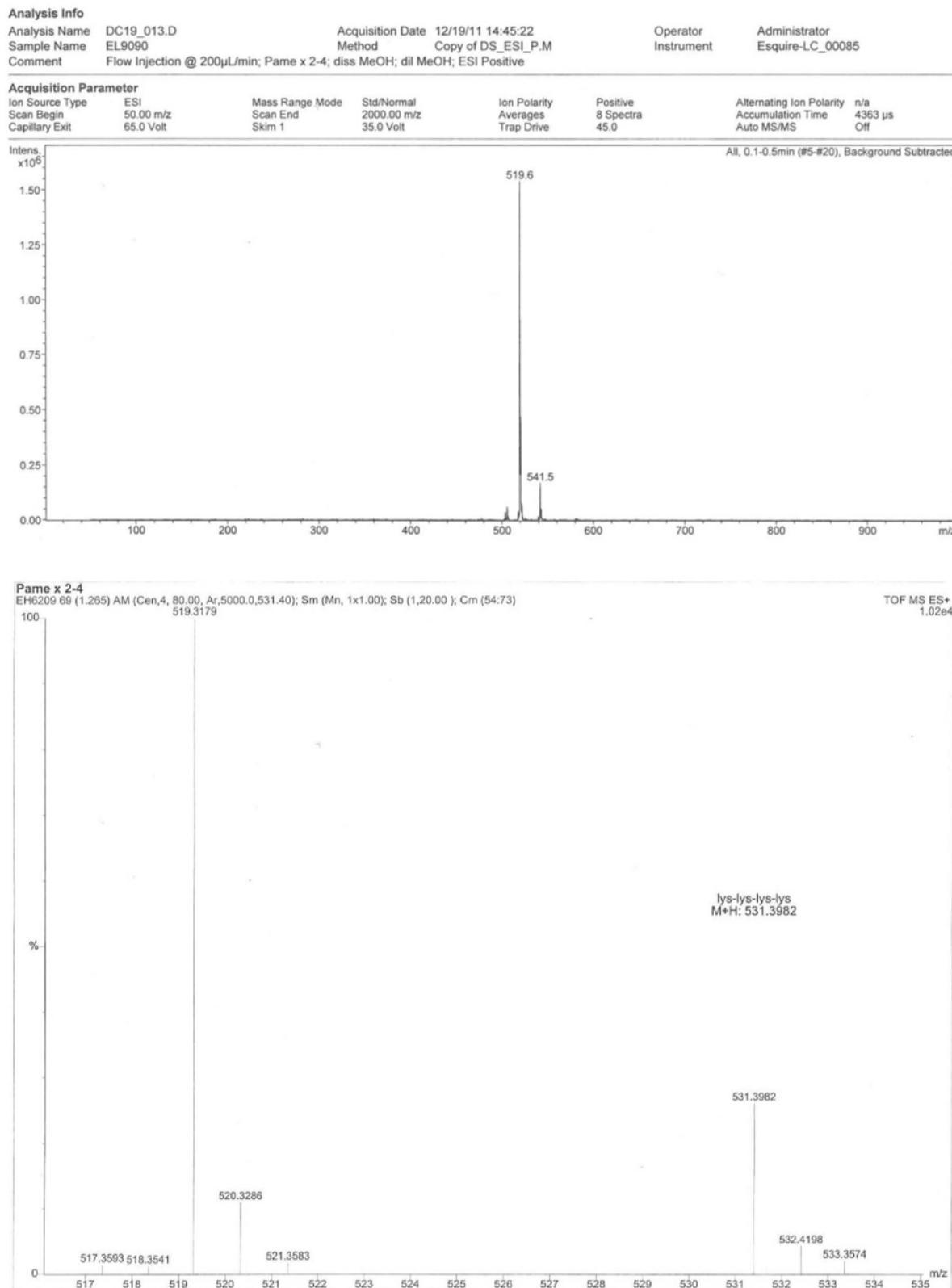


Figure S14. LR-ESI (top) and HR-ESI (bottom) mass spectra of methyl ester of the rodriguesic acid hydroxamate (**6**).

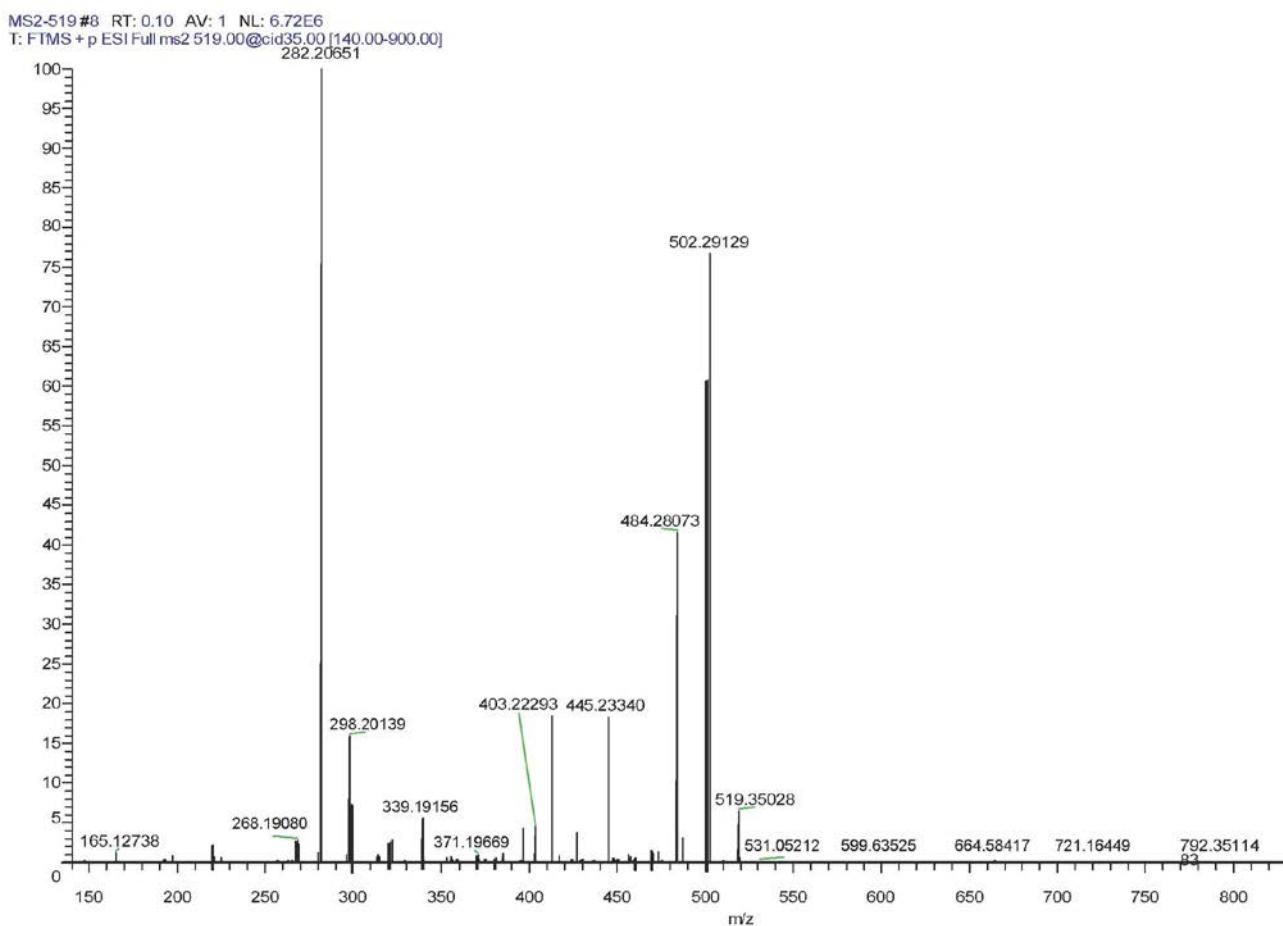


Figure S15. HRFTMS/MS analysis of methyl ester of the rodriguesic acid hydroxamate (**6**) $[M+H]^+$ ion at m/z 519.31476.

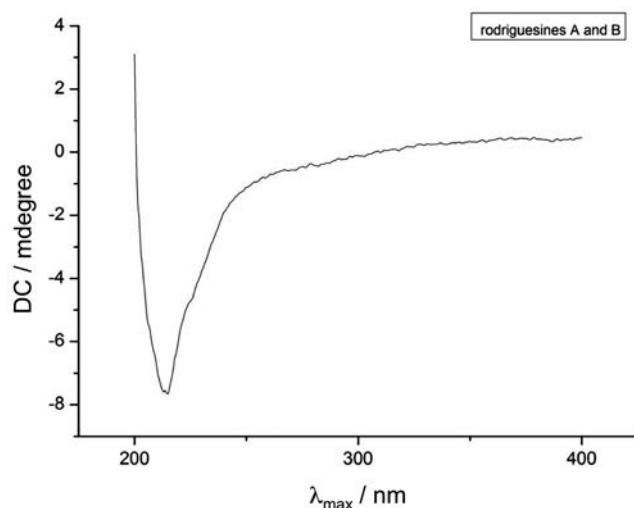


Figure S16. Circular dichroism spectrum of rodriguesines A (**1**) and B (**2**) in MeOH (0.030 mg mL^{-1}).

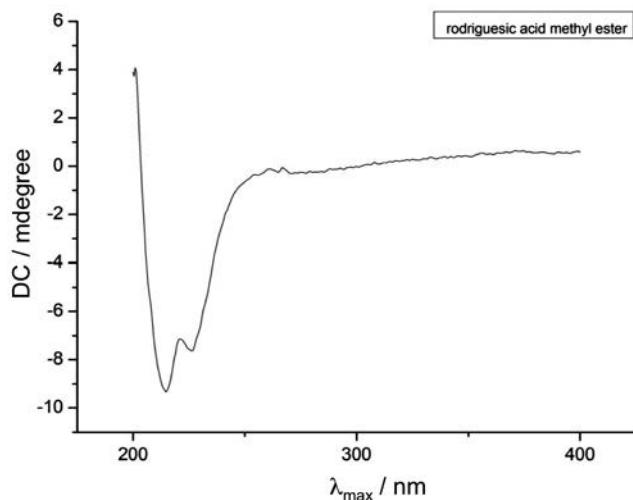


Figure S17. Circular dichroism spectrum of rodriguesic acid methyl ester (**5**) in MeOH (0.033 mg mL⁻¹).

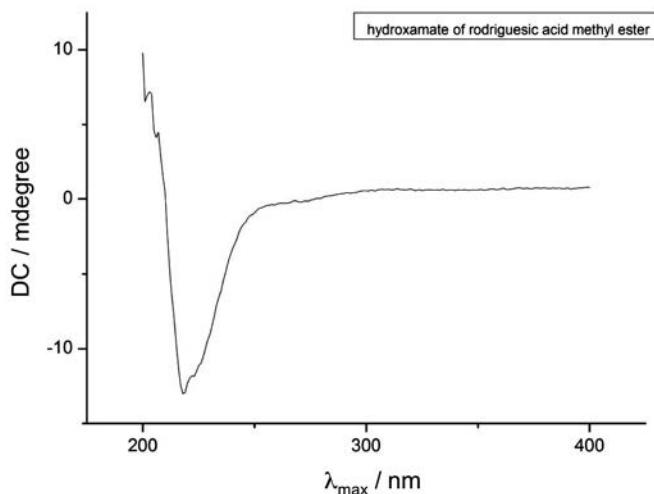


Figure S18. Circular dichroism spectrum of the hydroxamate of rodriguesic acid methyl ester (**6**) in MeOH (0.2 mg mL⁻¹).