

Supplementary Information

Synthesis of New *trans*-Dehydrocrotonin Nitrogenated Derivatives and their Cytotoxic and DNA-Topoisomerase I Inhibitory Activities

Andressa Esteves-Souza,^a Kenia Pissinate,^a Maria A. M. Maciel^{b,c} and Aurea Echevarria^{*,a}

^aDepartamento de Química, Universidade Federal Rural do Rio de Janeiro,
23851-970 Seropédica-RJ, Brazil

^bDepartamento de Química, Universidade Federal do Rio Grande do Norte,
59072-970 Natal-RN, Brazil

^cPrograma de Pós-graduação em Biotecnologia, Universidade Potiguar,
Laureate International Universities, Campus Salgado Filho, 59060-000 Natal-RN, Brazil

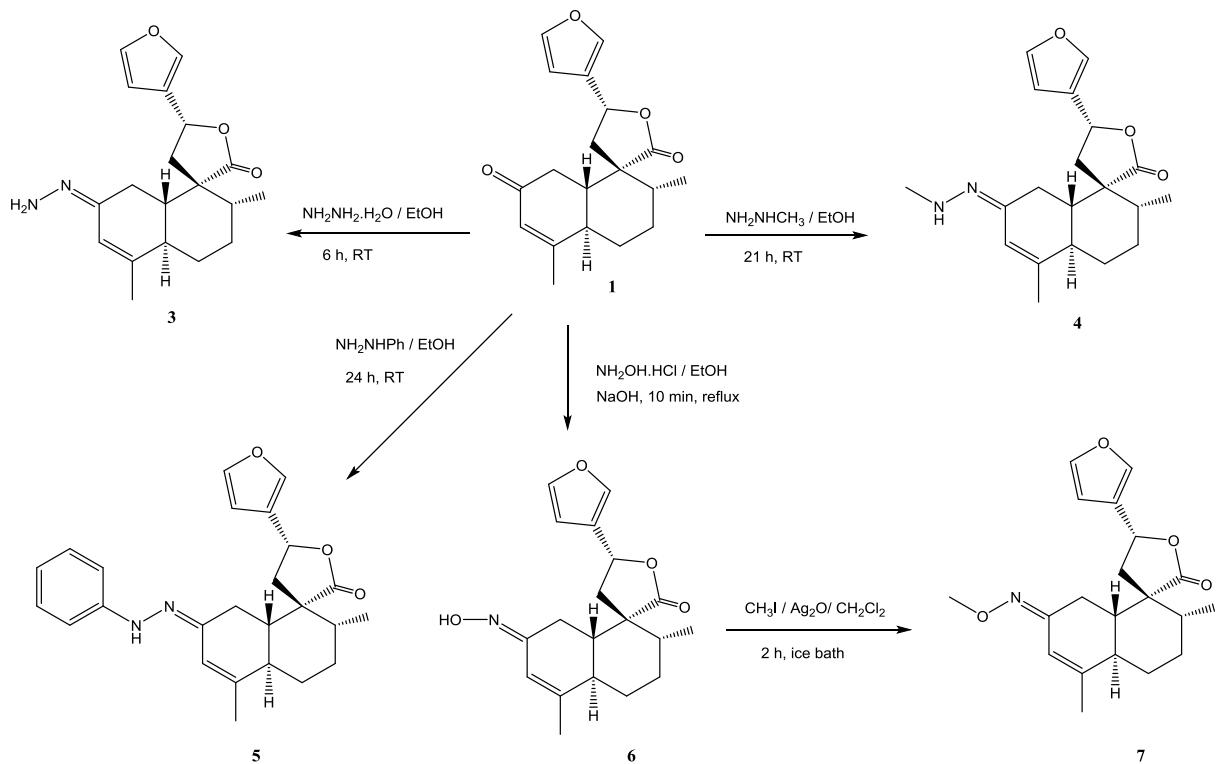


Figure S1. Semi-synthetic clerodanes **3-7**.

*e-mail: echevarr@ufrj.br

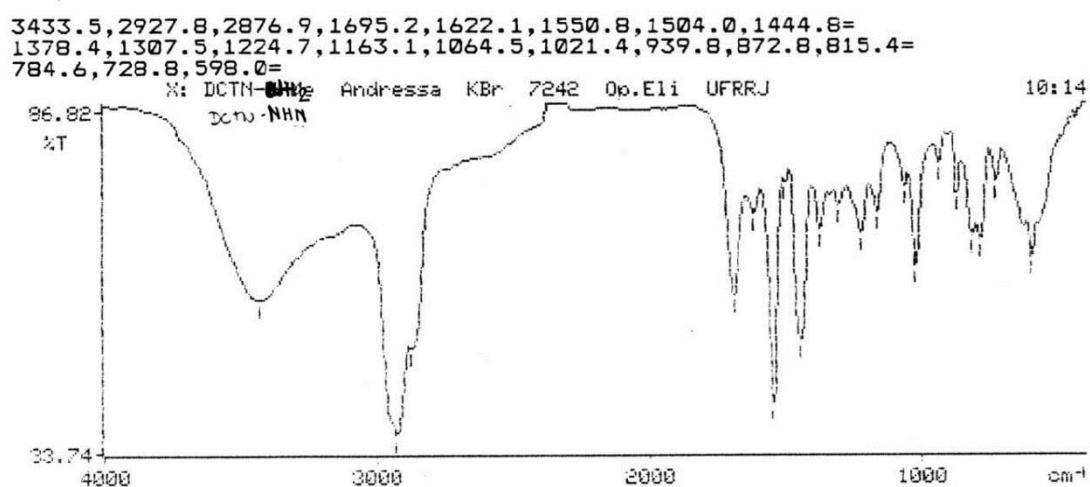


Figure S2. Infrared spectrum (KBr) of compound **3**.

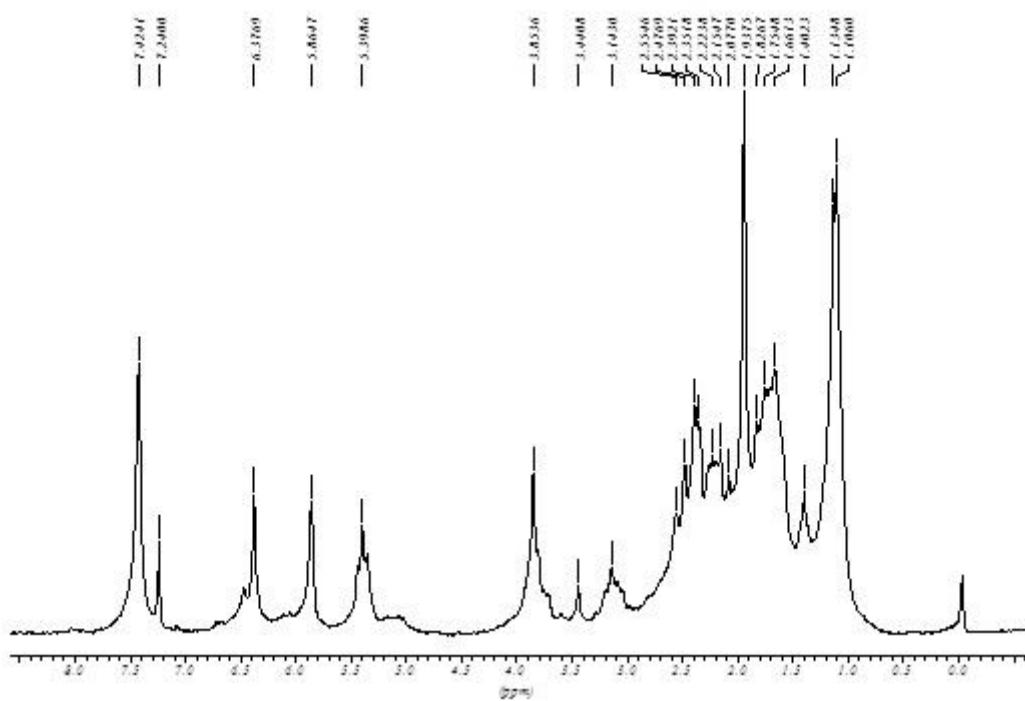


Figure S3. ¹H NMR spectrum (200 MHz, CDCl₃) of compound **3**.

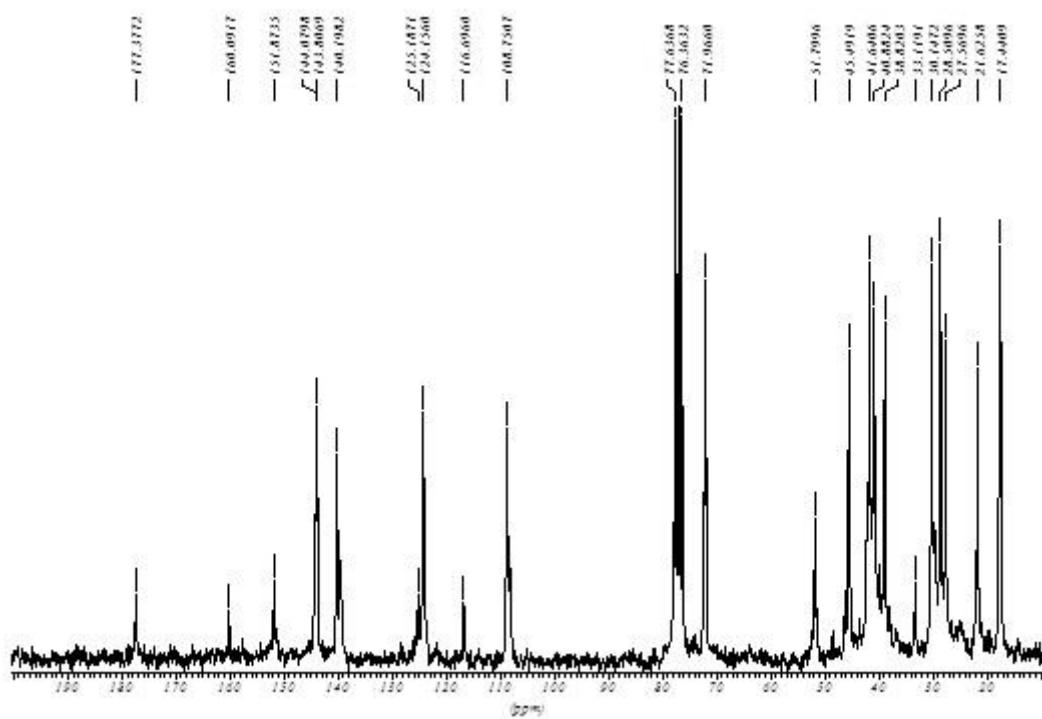


Figure S4. ^{13}C NMR spectrum (50 MHz, CDCl_3) of compound 3.

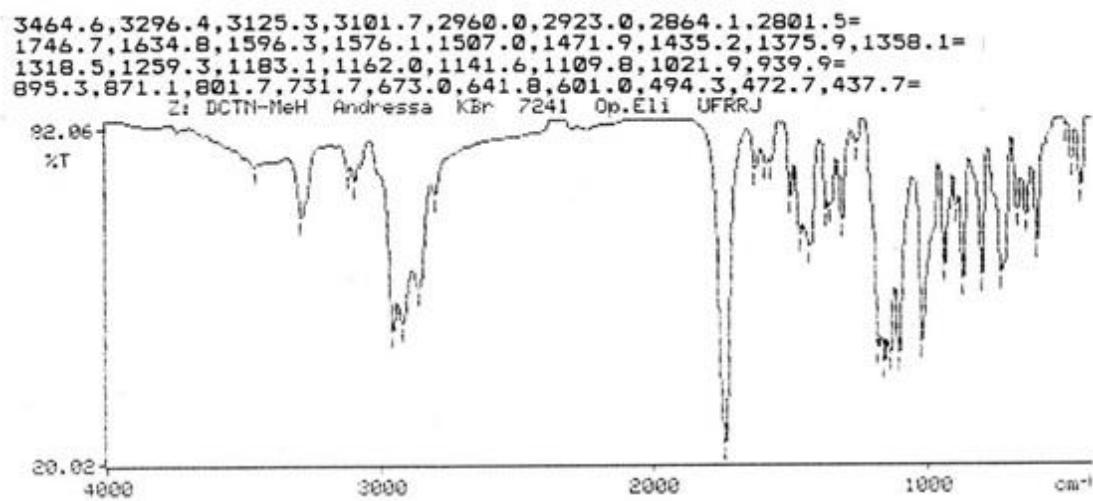


Figure S5. Infrared spectrum (KBr) of compound 4.

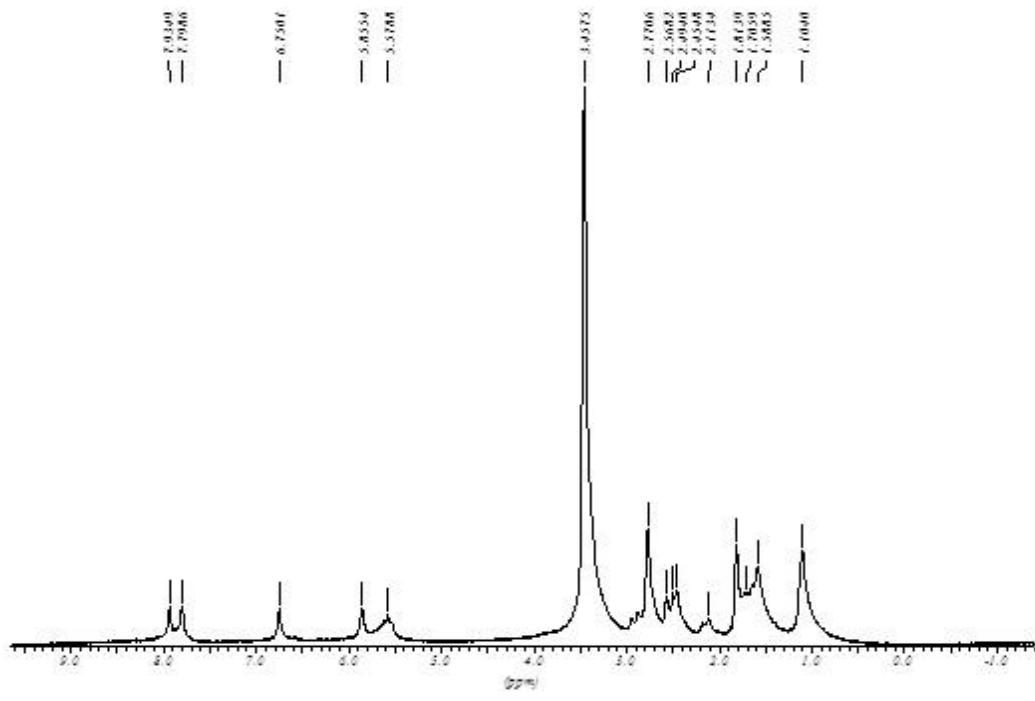


Figure S6. ^1H NMR spectrum (200 MHz, $\text{DMSO}-d_6$) of compound **4**.

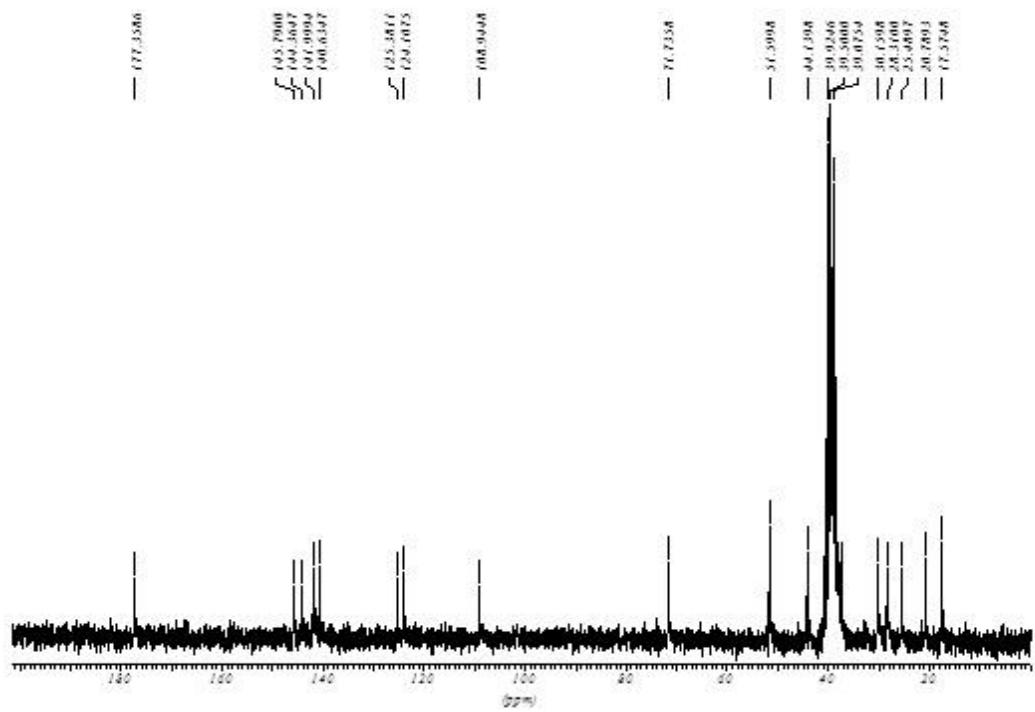


Figure S7. ^{13}C NMR spectrum (50 MHz, $\text{DMSO}-d_6$) of compound **4**.

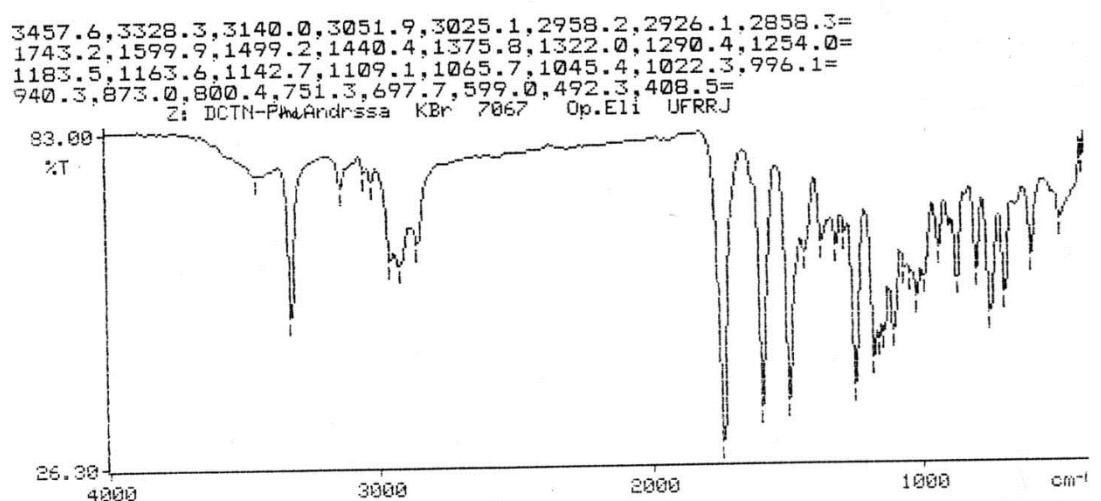


Figure S8. Infrared spectrum (KBr) of compound **5**.

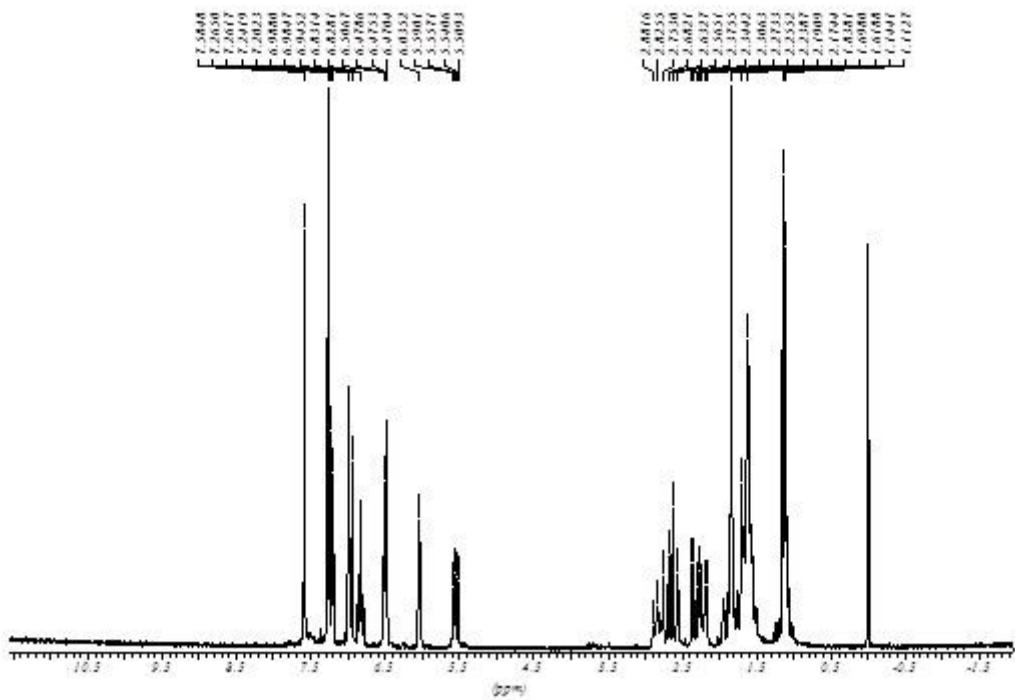


Figure S9. ^1H NMR spectrum (200 MHz, CDCl_3) of compound **5**.

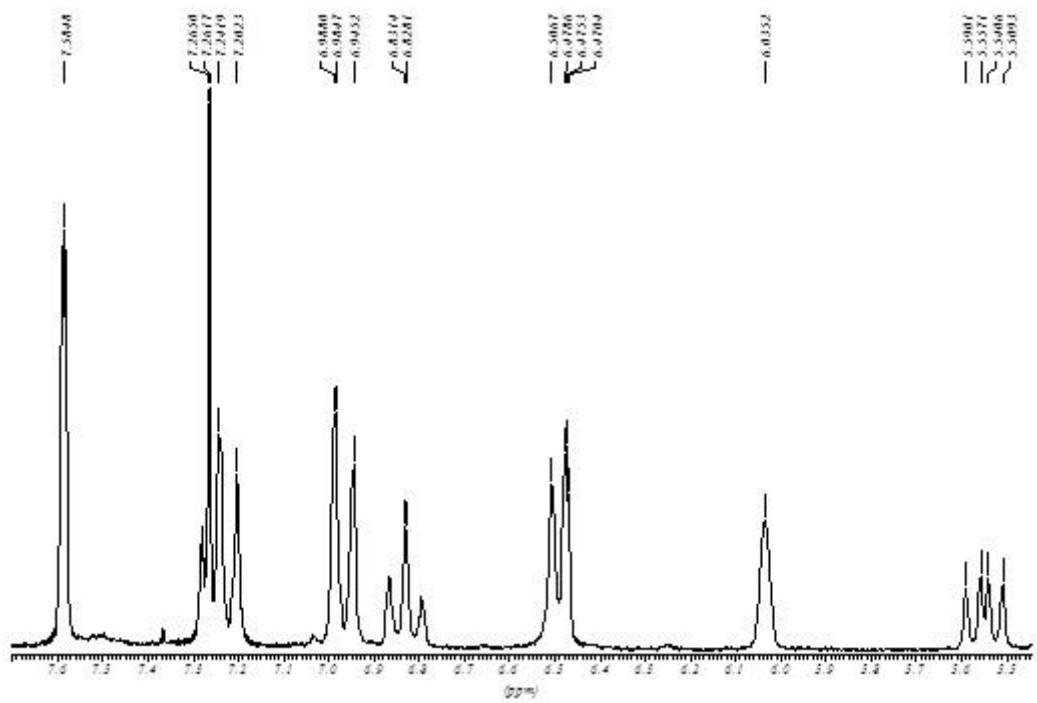


Figure S10. ^1H NMR spectrum (200 MHz, CDCl_3) of compound **5** (expansion 1).

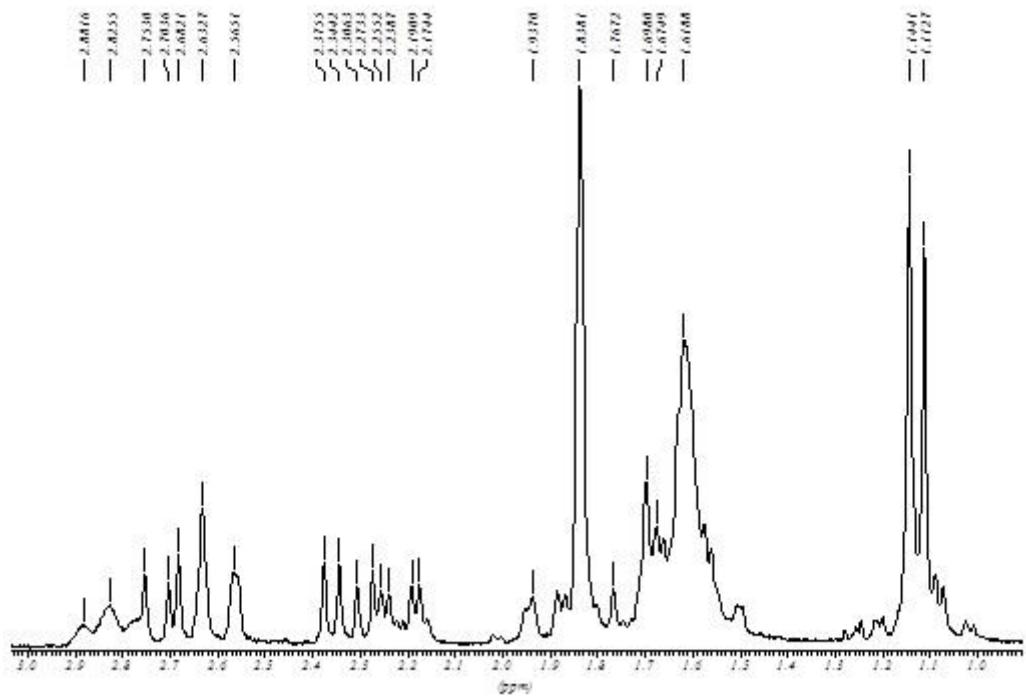


Figure S11. ^1H NMR spectrum (200 MHz, CDCl_3) of compound **5** (expansion 2).

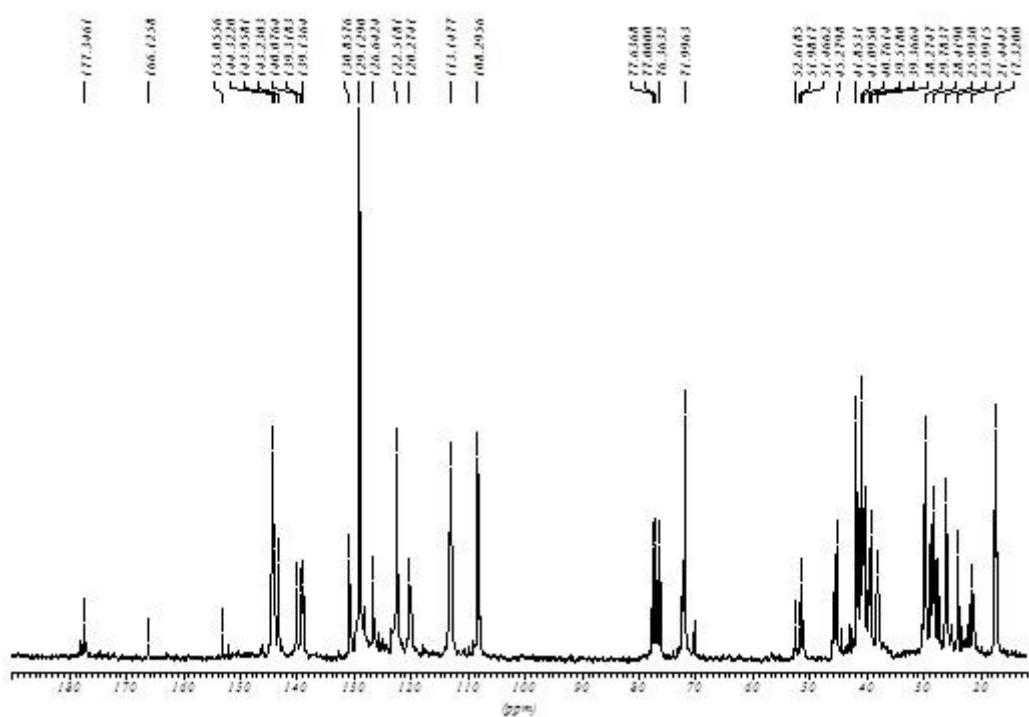


Figure S12. ^{13}C NMR spectrum (50 MHz, CDCl_3) of compound 5.

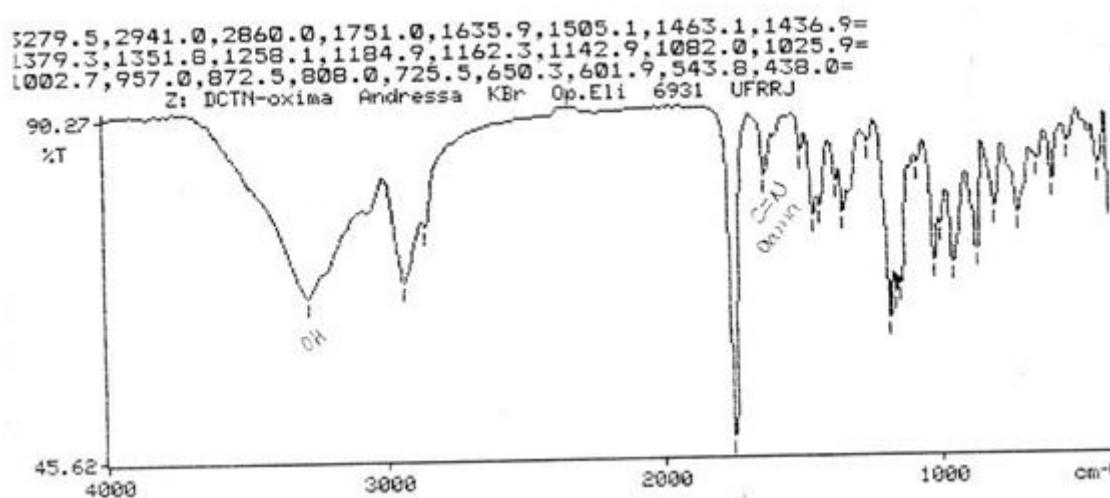


Figure S13. Infrared spectrum (KBr) of compound 6.

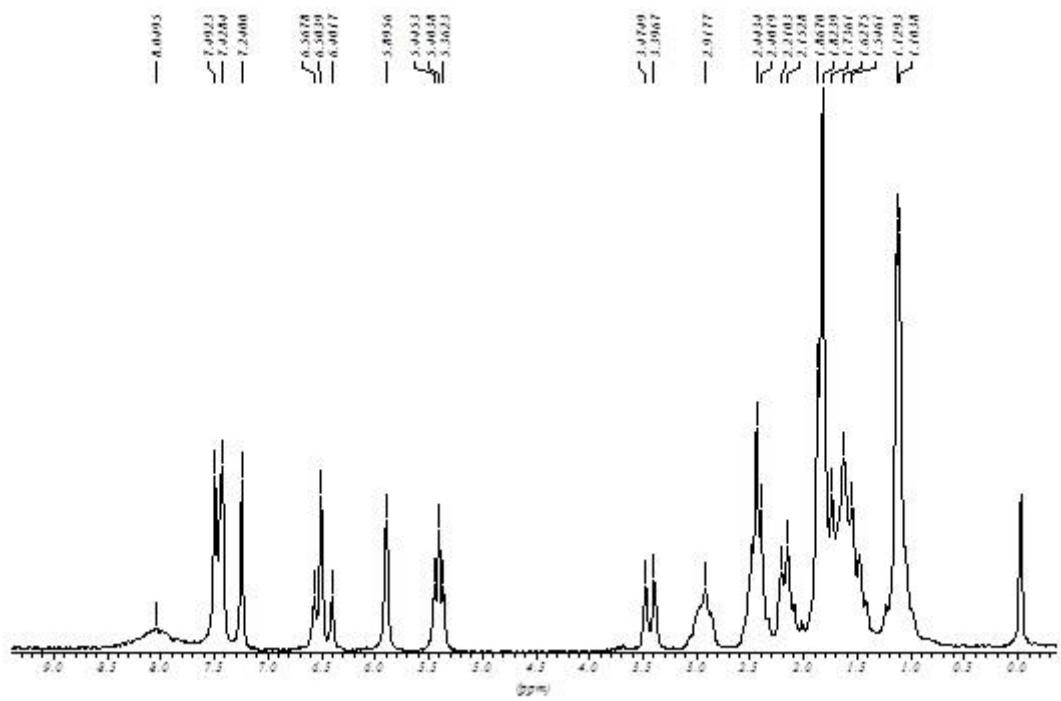


Figure S14. ^1H NMR spectrum (200 MHz, CDCl_3) of compound **6**.

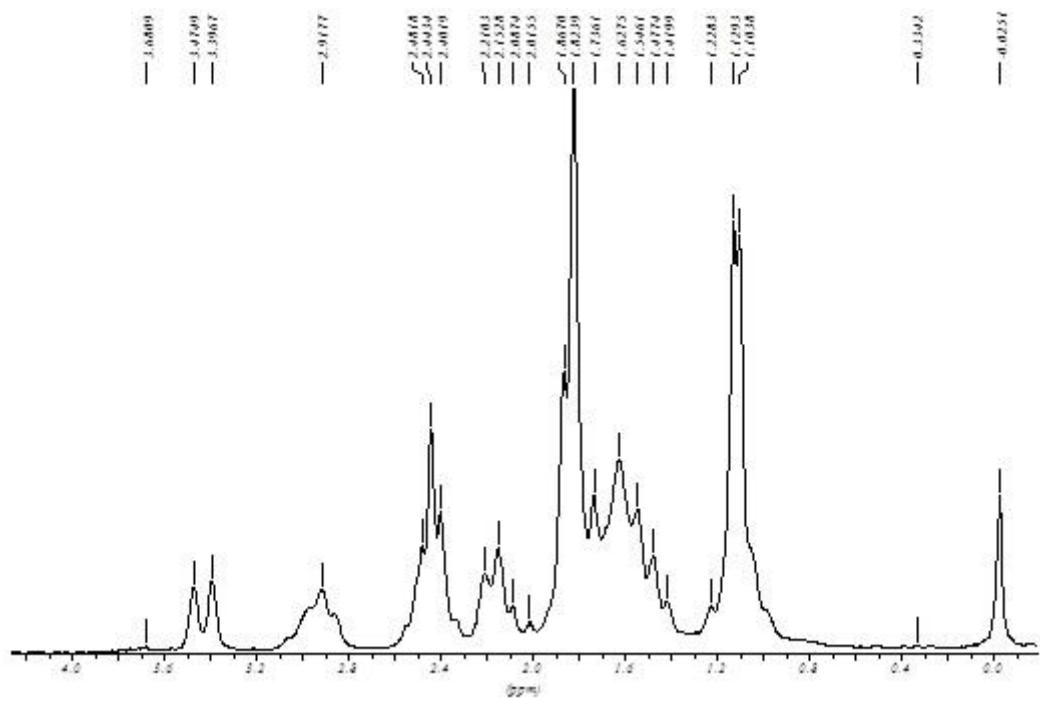


Figure S15. ^1H NMR spectrum (200 MHz, CDCl_3) of compound **6** (expansion).

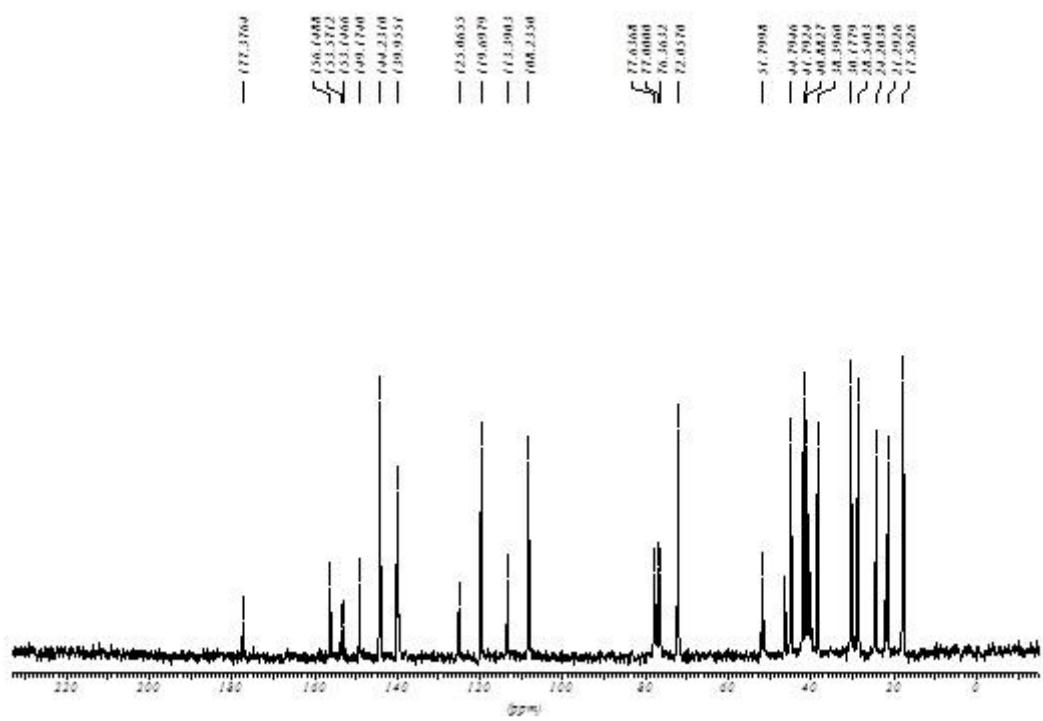


Figure S16. ^{13}C NMR spectrum (50 MHz, CDCl_3) of compound 6.

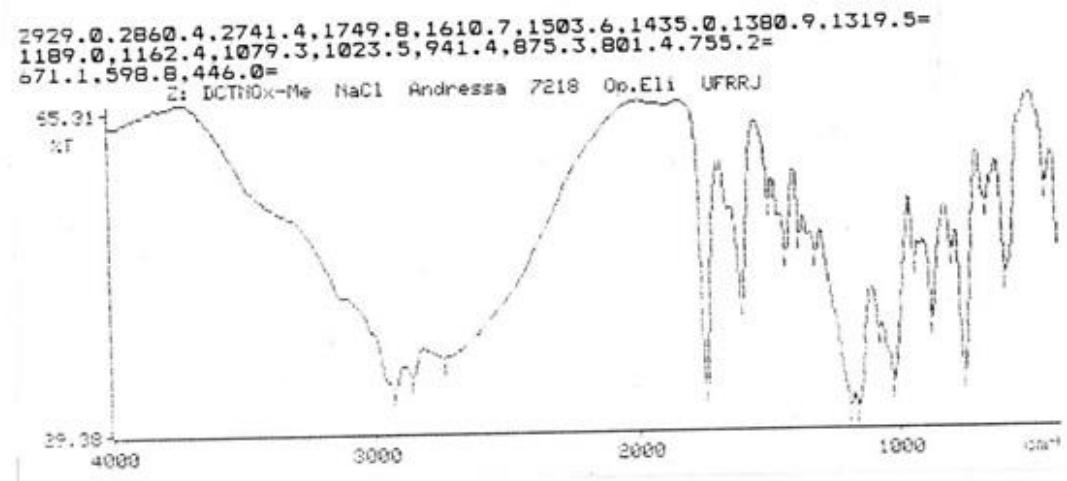


Figure S17. Infrared spectrum (KBr) of compound 7.

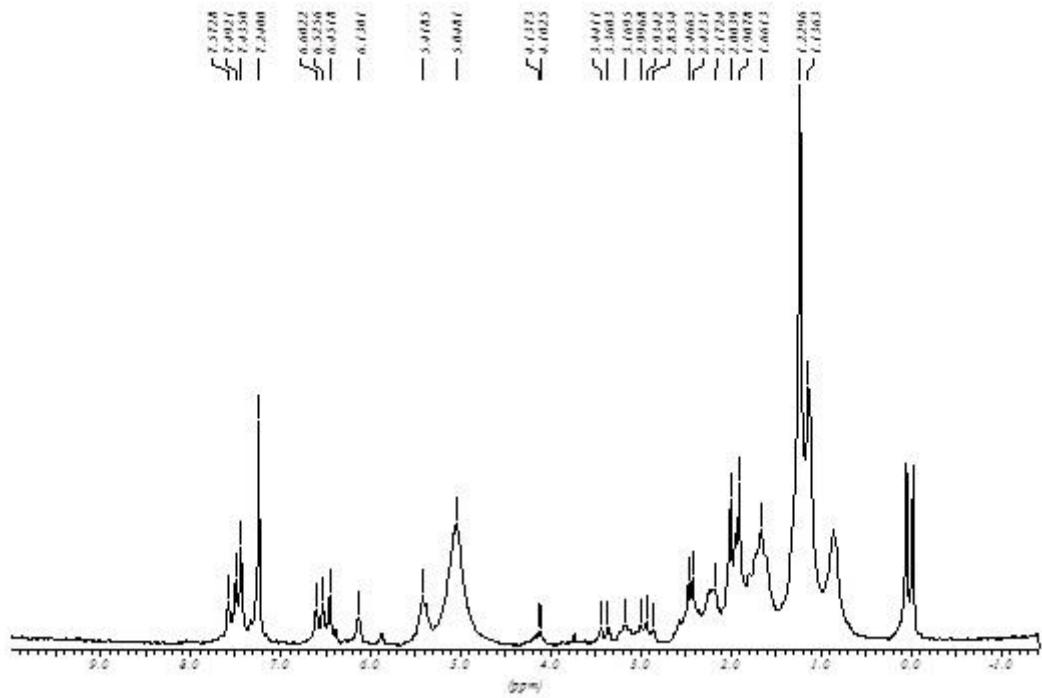


Figure S18. ^1H NMR spectrum (200 MHz, CDCl_3) of compound 7.

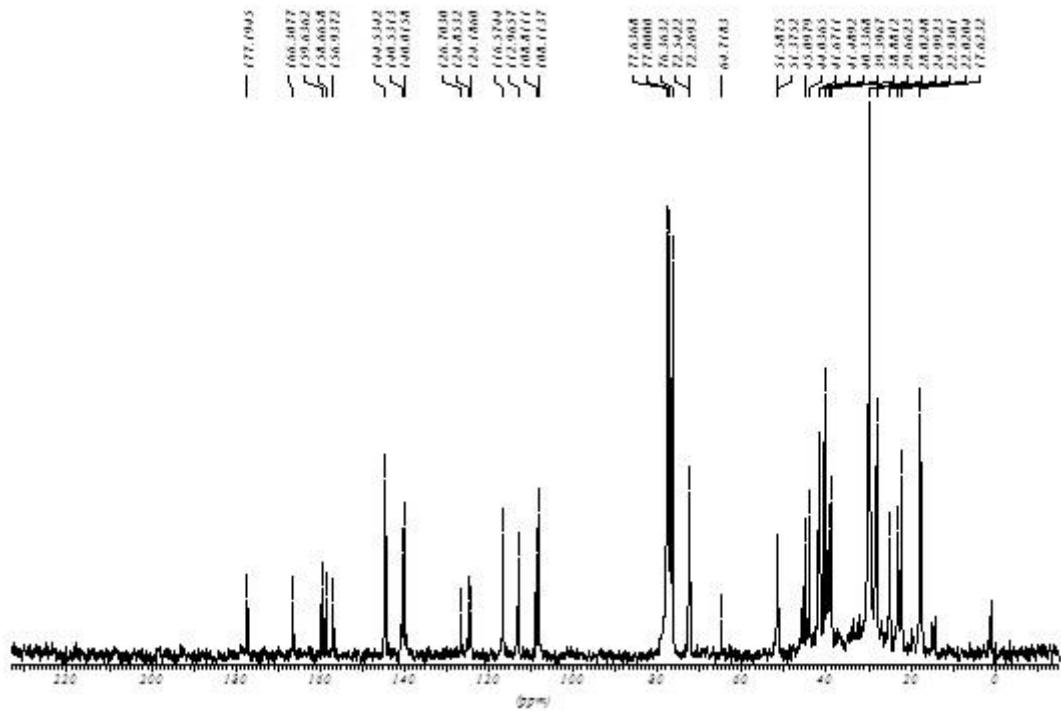


Figure S19. ^{13}C NMR spectrum (50 MHz, CDCl_3) of compound 7.