

Supplementary file

Antioxidants Isolated from *Elaeagnus umbellata* (Thunb.) Protect Against Bacterial Infections and Diabetes in Streptozotocin-Induced Diabetic Rat Model

Nausheen Nazir ^{1,*}, Muhammad Zahoor ^{1,*}, Mohammad Nisar ², Imran Khan ³, Riaz Ullah ⁴ and Amal Alotaibi ^{5,*}

¹ Department of Biochemistry, University of Malakand, Chakdara 18800, Khyber Pakhtunkhwa, Pakistan; nausheen.nazir@uom.edu.pk

² Department of Botany, University of Malakand, Chakdara 18800, Khyber Pakhtunkhwa, Pakistan; mnshaalpk@yahoo.com

³ Department of Pharmacy, University of Swabi, Anbar 94604, Khyber Pakhtunkhwa, Pakistan; drimran.khan@hotmail.com

⁴ Department of Pharmacognosy, (MAPPRC), College of Pharmacy, King Saud University, Riyadh 11451, Saudi Arabia; rullah@ksu.edu.sa

⁵ Basic Science Department, College of Medicine, Princess Nourah bint Abdulrahman University, Riyadh 11671, Saudi Arabia

* Correspondence: authors: mohammadzahoorus@yahoo.com (M.Z.); amaalotaibi@pnu.edu.sa (A.A.)

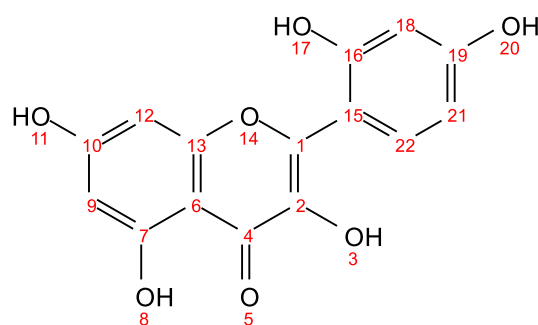


Figure S1. Structural formula of compound-I (Morin).

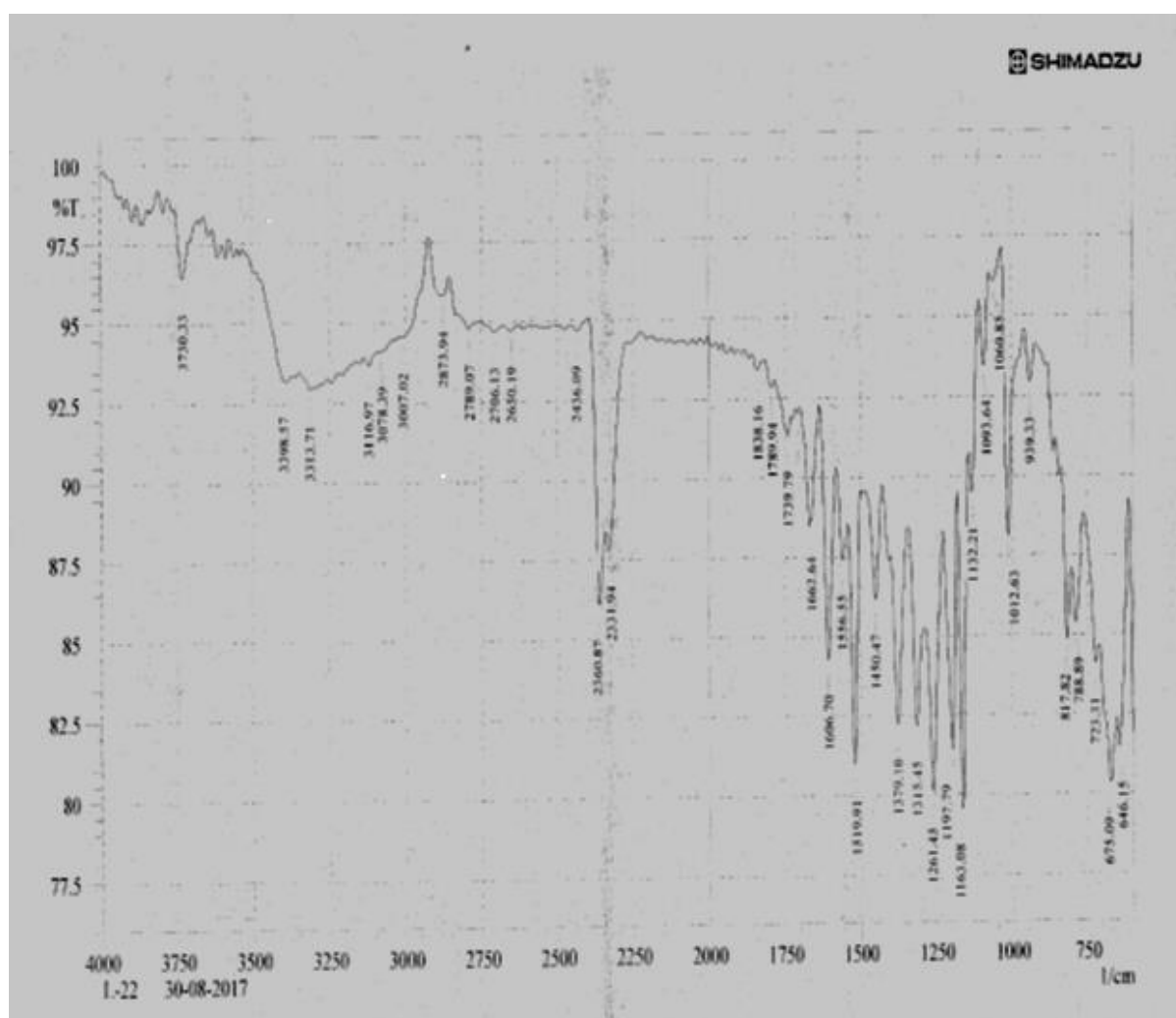
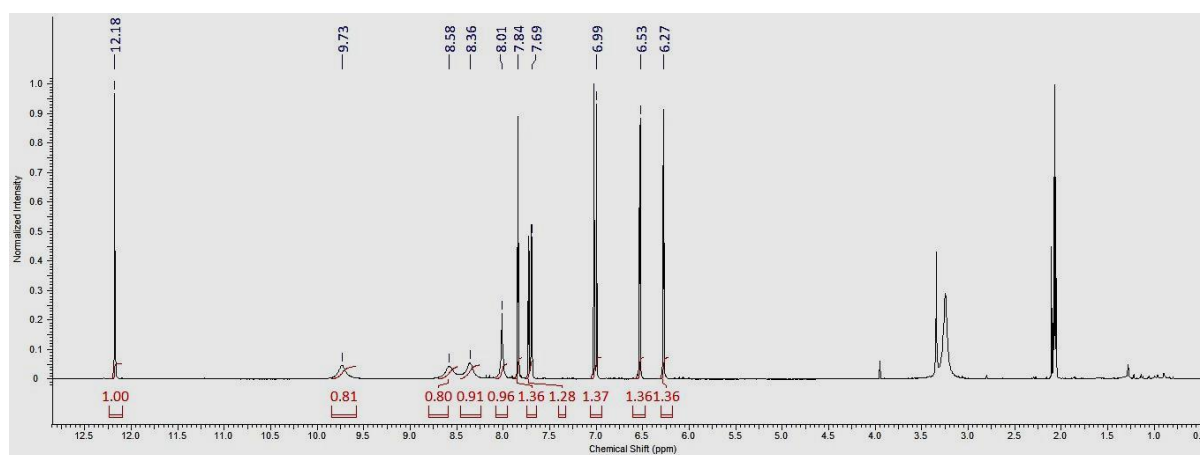


Figure S2. FTIR spectra of compound-I (Morin).

Figure S3. ^1H NMR (Acetone, 300MHz) of compound-I (Morin).

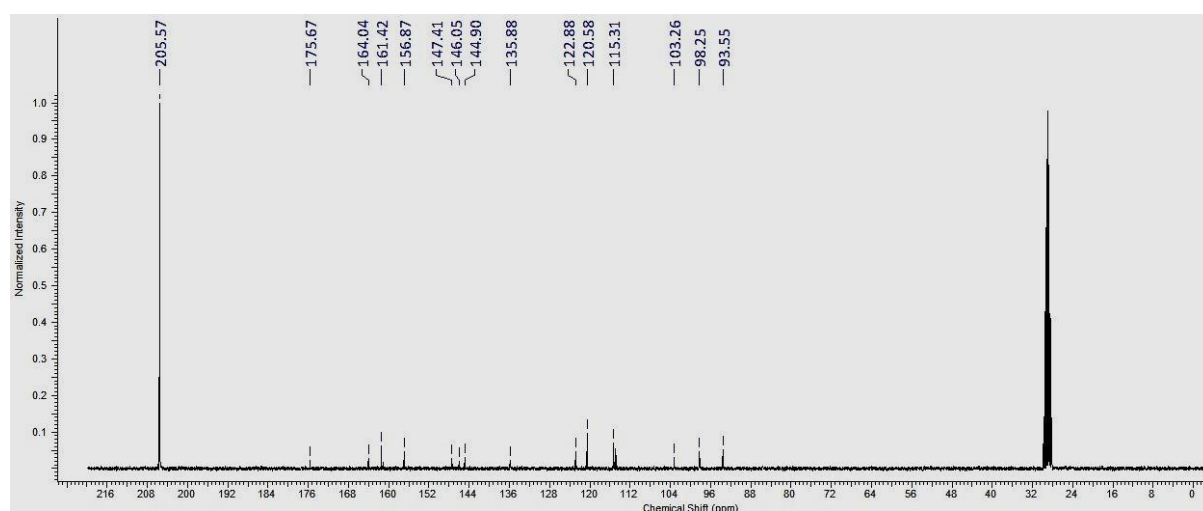


Figure S4. ^{13}C NMR (Acetone, 75MHz) of compound-I (Morin).

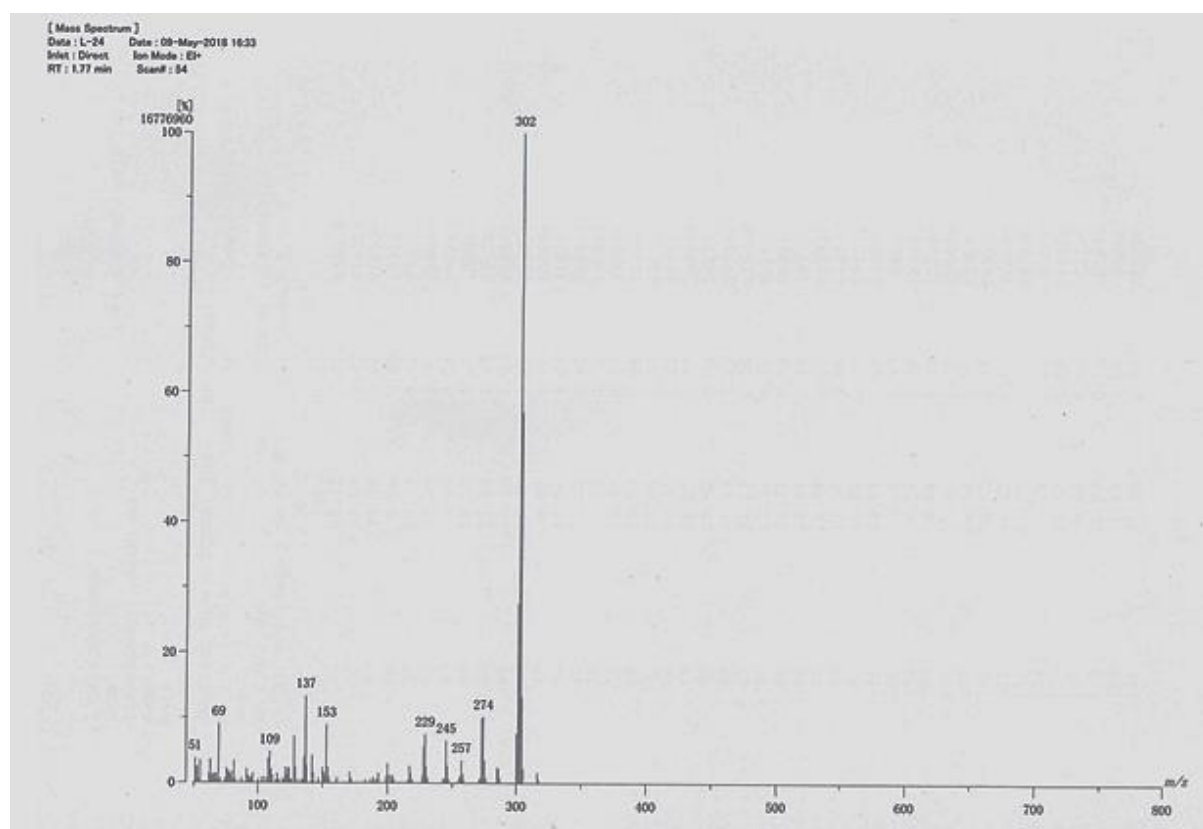


Figure S5. EIMS of compound-I (Morin).

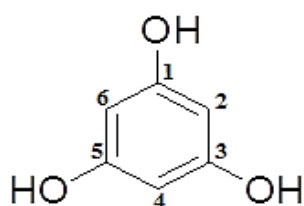


Figure S6. Structural formula of compound-II (Phloroglucinol).

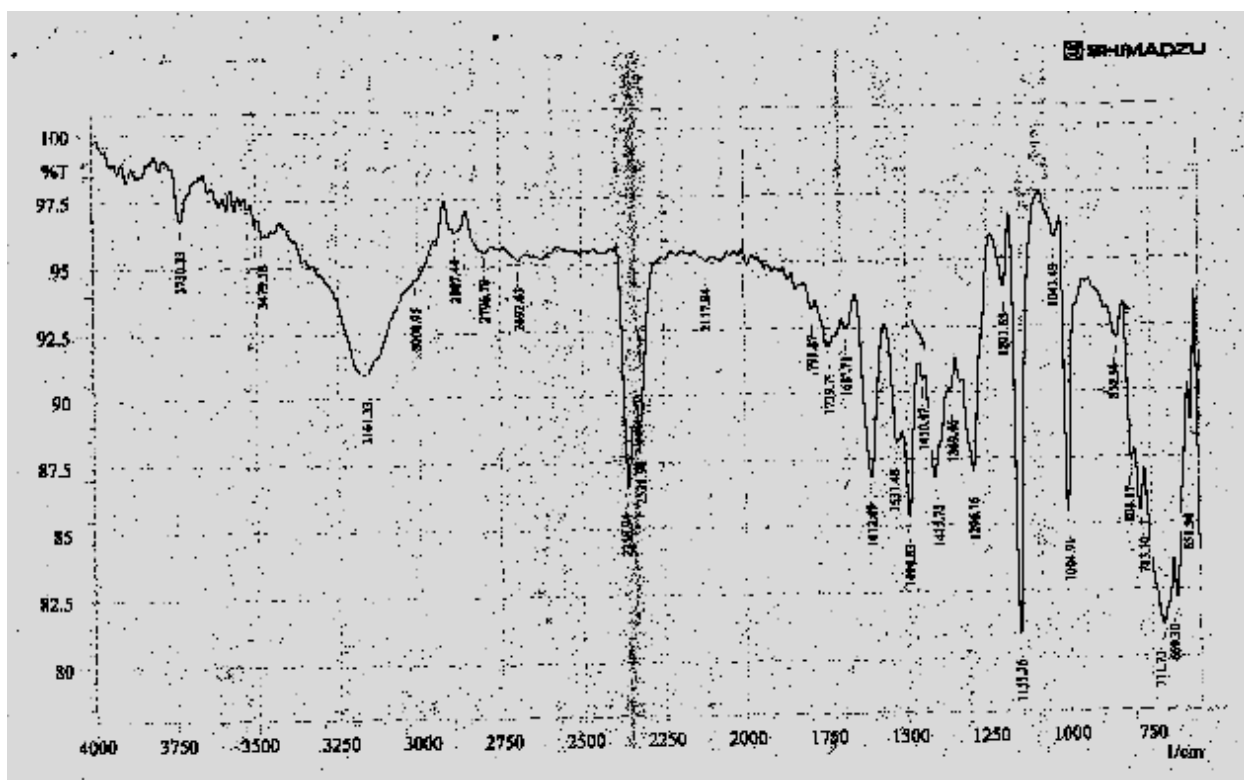


Figure S7. FTIR spectra of compound-II (Phloroglucinol).

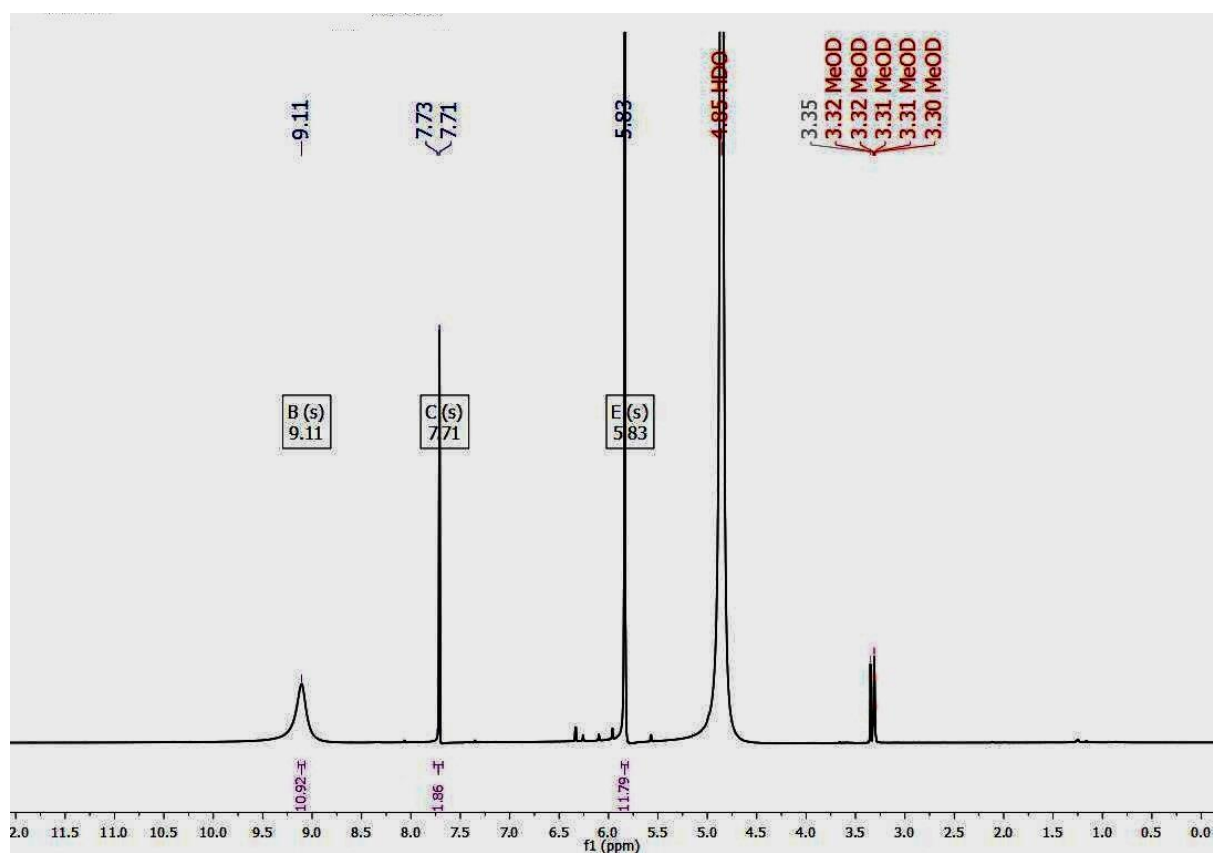


Figure S8. ¹H- (Methanol, 500 MHz) of compound-II (Phloroglucinol).

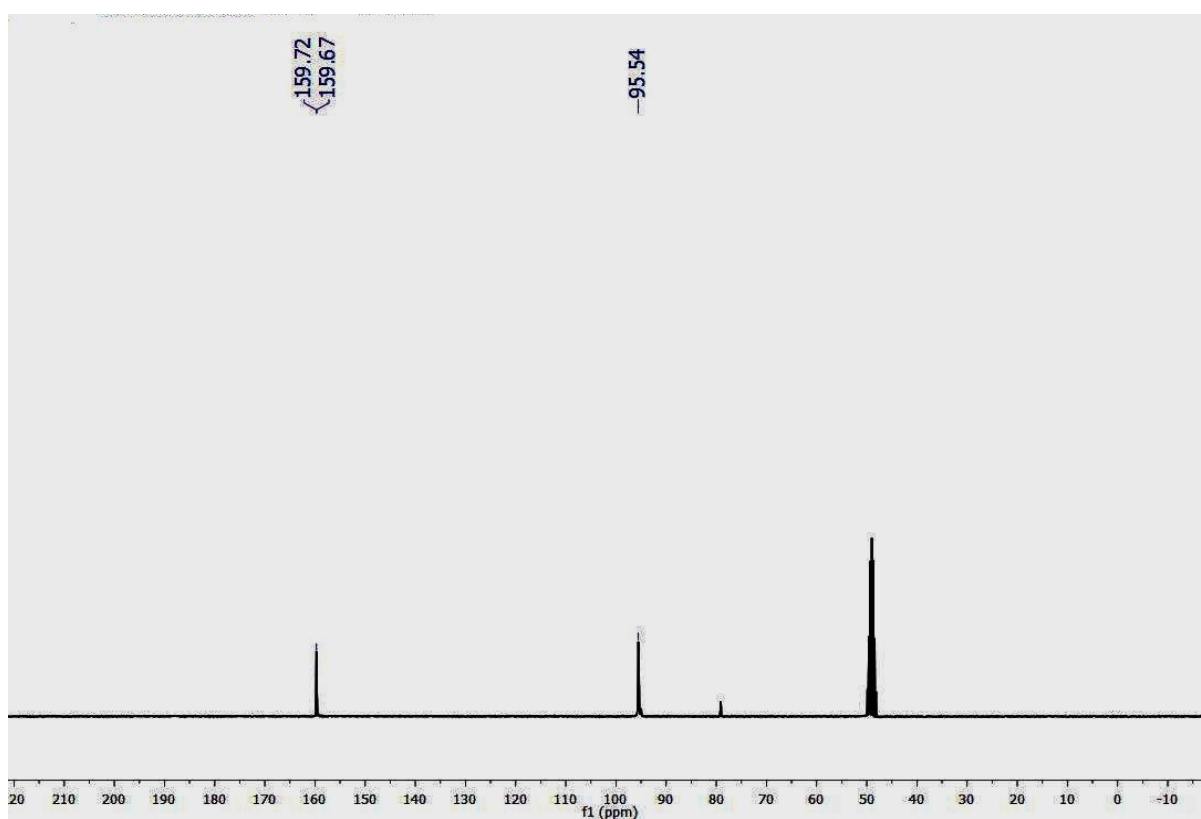


Figure S9. ¹³C-NMR (Methanol, 126 MHz) of compound-II (Phloroglucinol).

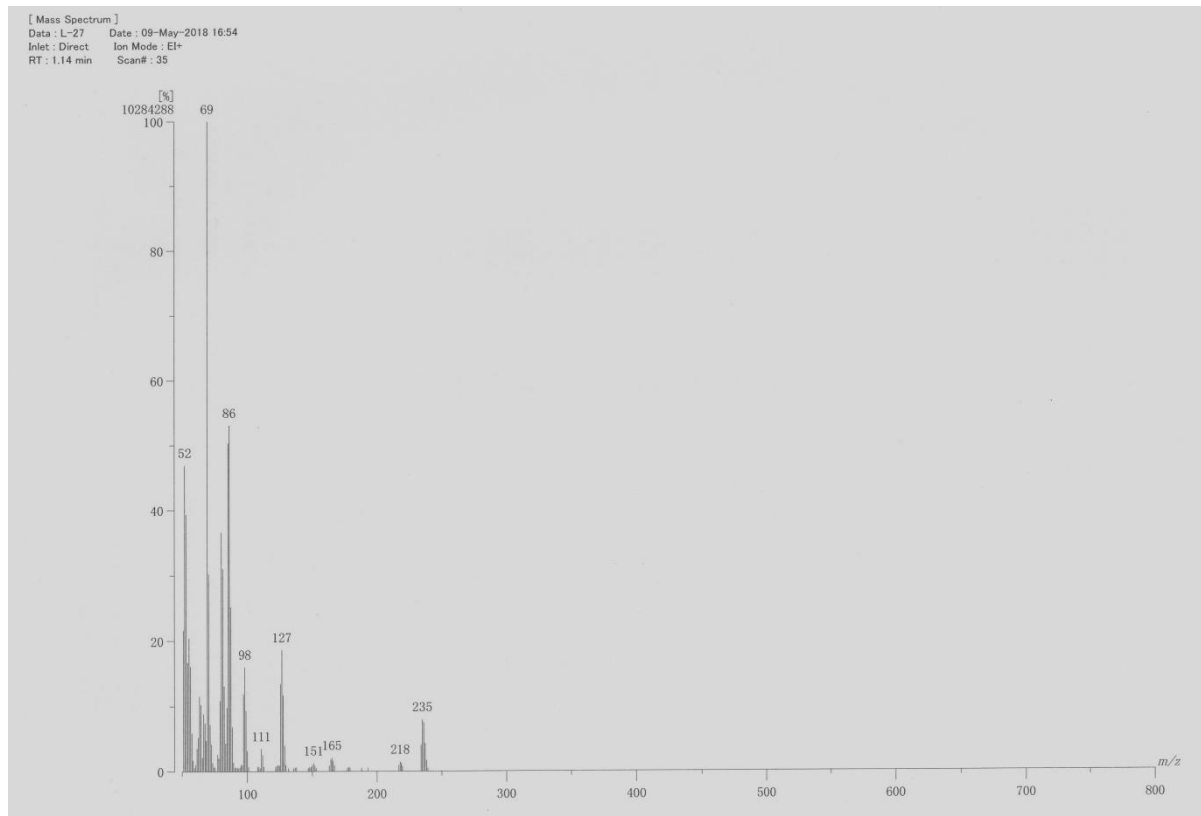


Figure S10. EI-MS Mass of compound-II (Phloroglucinol).

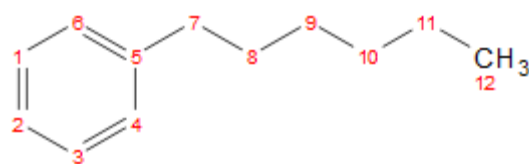


Figure S11. Structural formula of compound-III (1-Hexyl benzene).

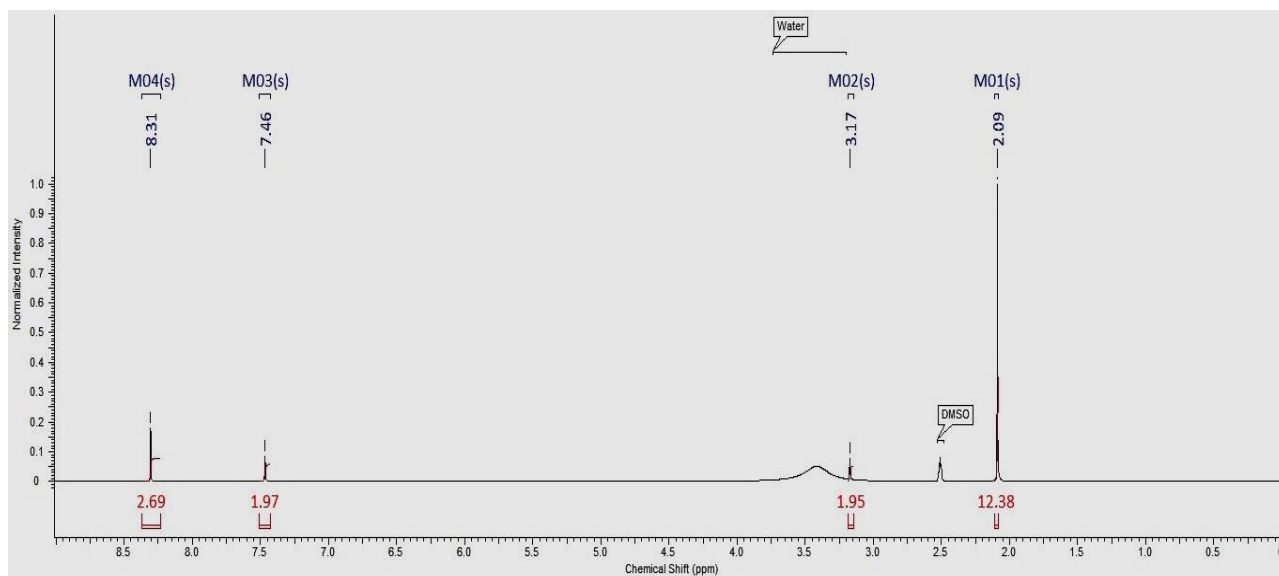


Figure S12. ¹H NMR (DMSO- H₂O, 300MHz) of compound-III (1-Hexyl benzene).

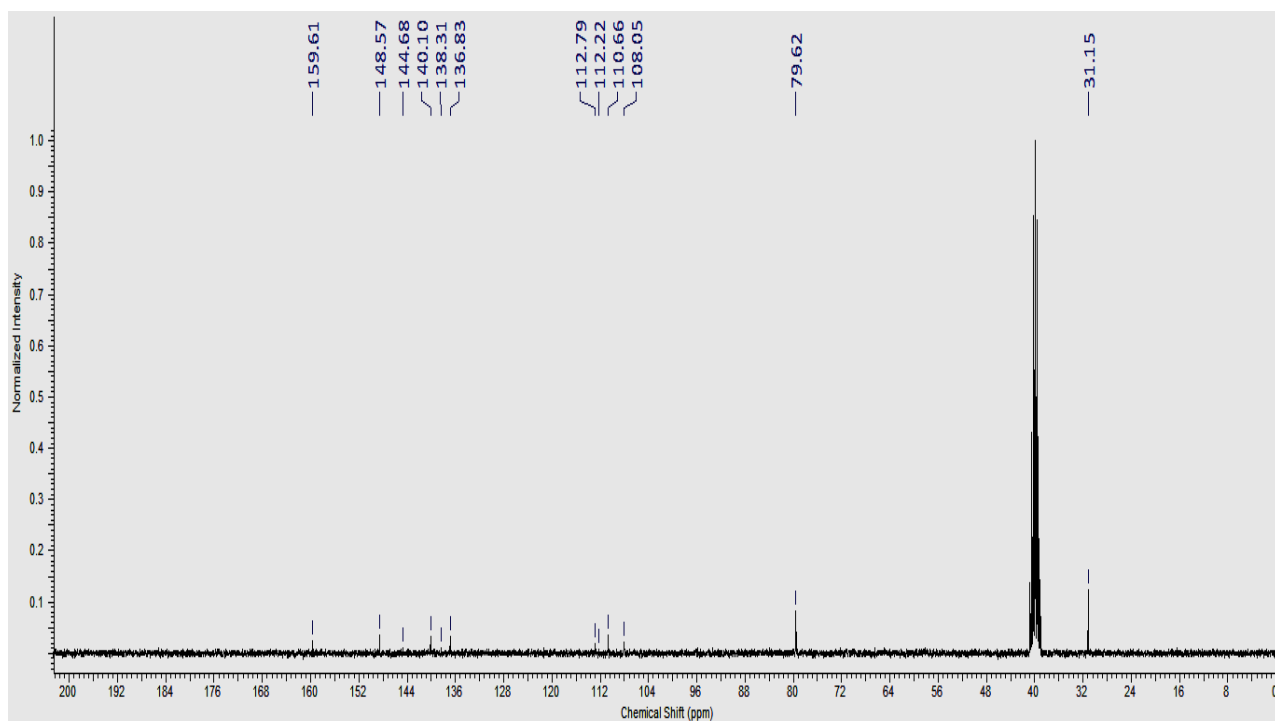


Figure S13. ¹³C NMR (DMSO-*d*₆, 75MHz) of compound-III (1-Hexyl benzene).

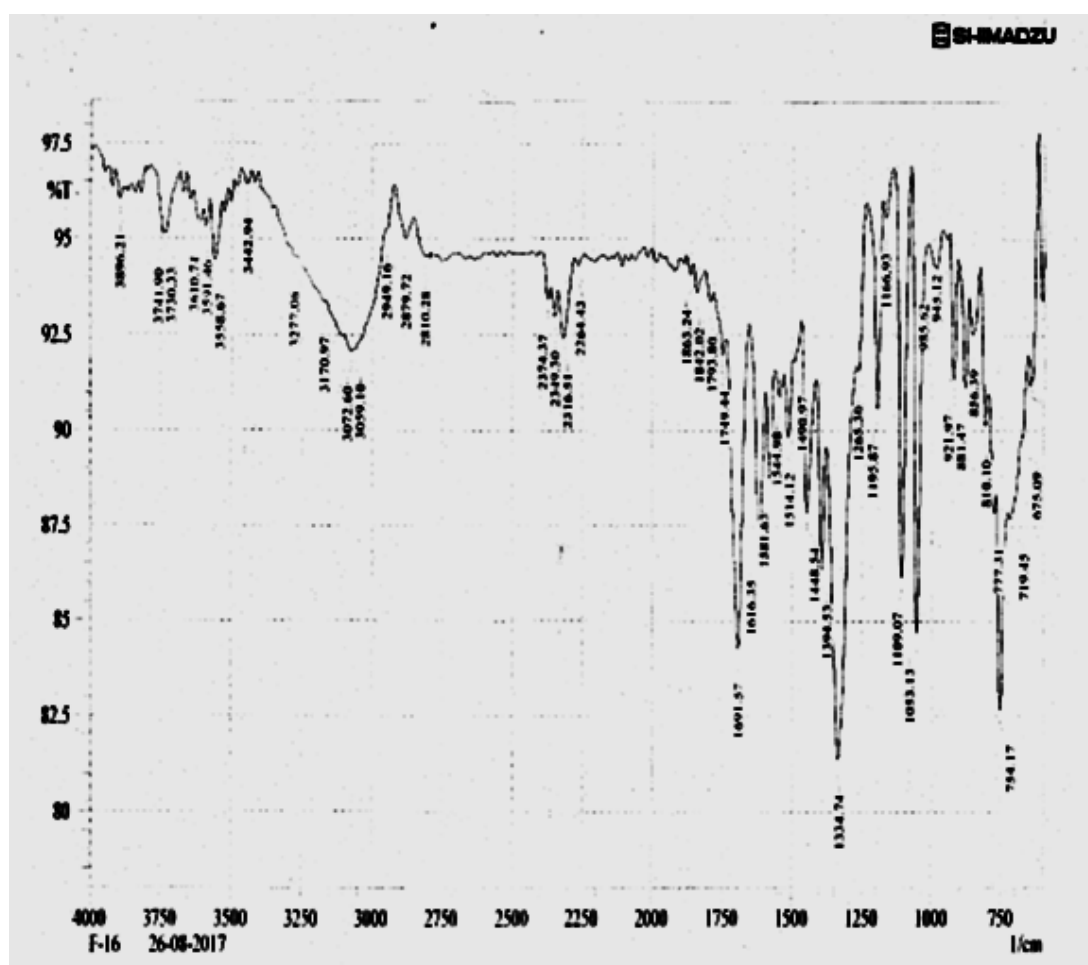


Figure S14. FTIR spectra of compound-III (1-Hexyl benzene).

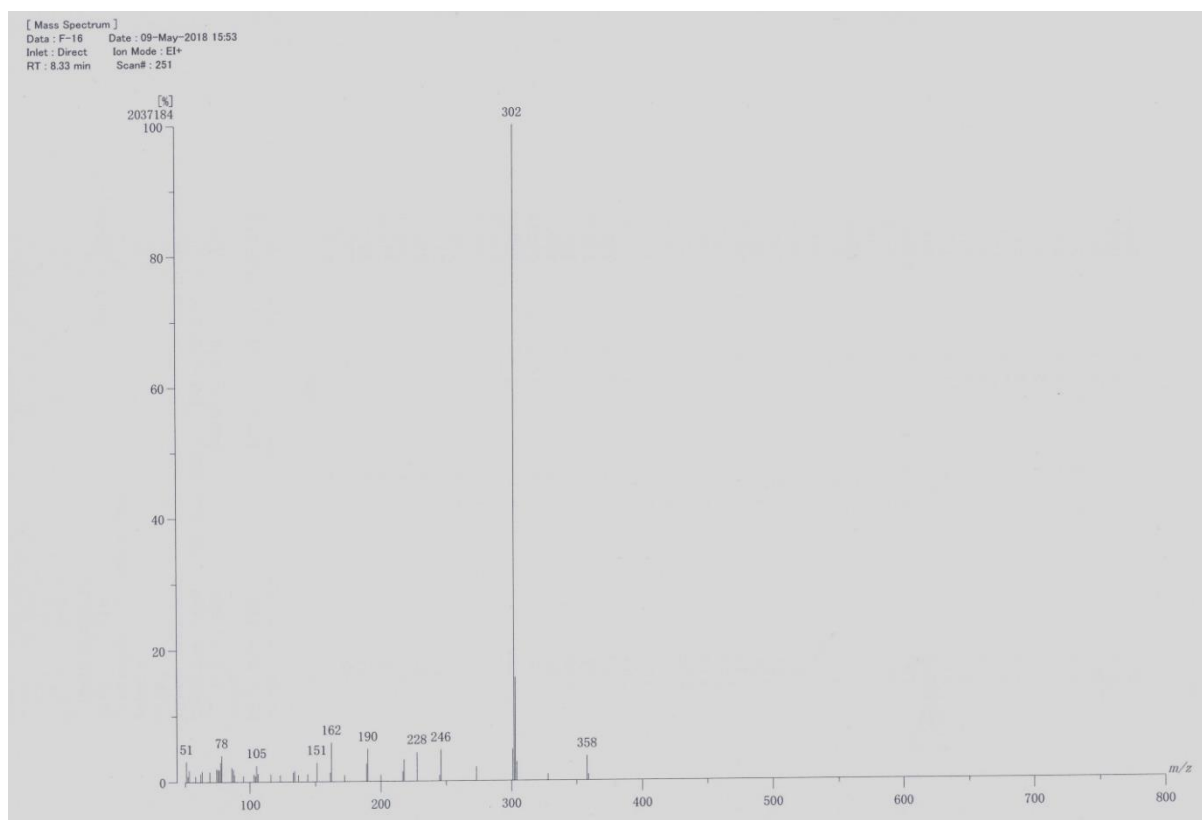


Figure S15. EIMS of compound-III (1-Hexyl benzene).