

Discovery of Novel Mono-Carbonyl Curcumin Derivatives as Potential Anti-Hepatoma Agents

Weiya Cao ^{1,2}, Pan Yu ^{1,2,*}, Shilong Yang ³, Zheyu Li ², Qixuan Zhang ², Zengge Liu ² and Hongzhuo Li ²

¹ College of Public Health, Anhui University of Science and Technology, Hefei 230000, China; sml131415@163.com

² College of Medicine, Anhui University of Science and Technology, Huainan 232001, China; 17758194831@163.com (Z.L.); 13753738161@163.com (Q.Z.); 15771326234@163.com (Z.L.); 17767778237@163.com (H.L.)

³ College of Chemical Engineering, Nanjing Forestry University, Nanjing 210037, China; yshl6072@njfu.edu.cn

* Correspondence: 2020035@aust.edu.cn

¹H NMR, ¹³C NMR of target compounds

(1E,4E)-1,5-bis(4-hydroxy-3-methoxyphenyl)penta-1,4-dien-3-one (2)

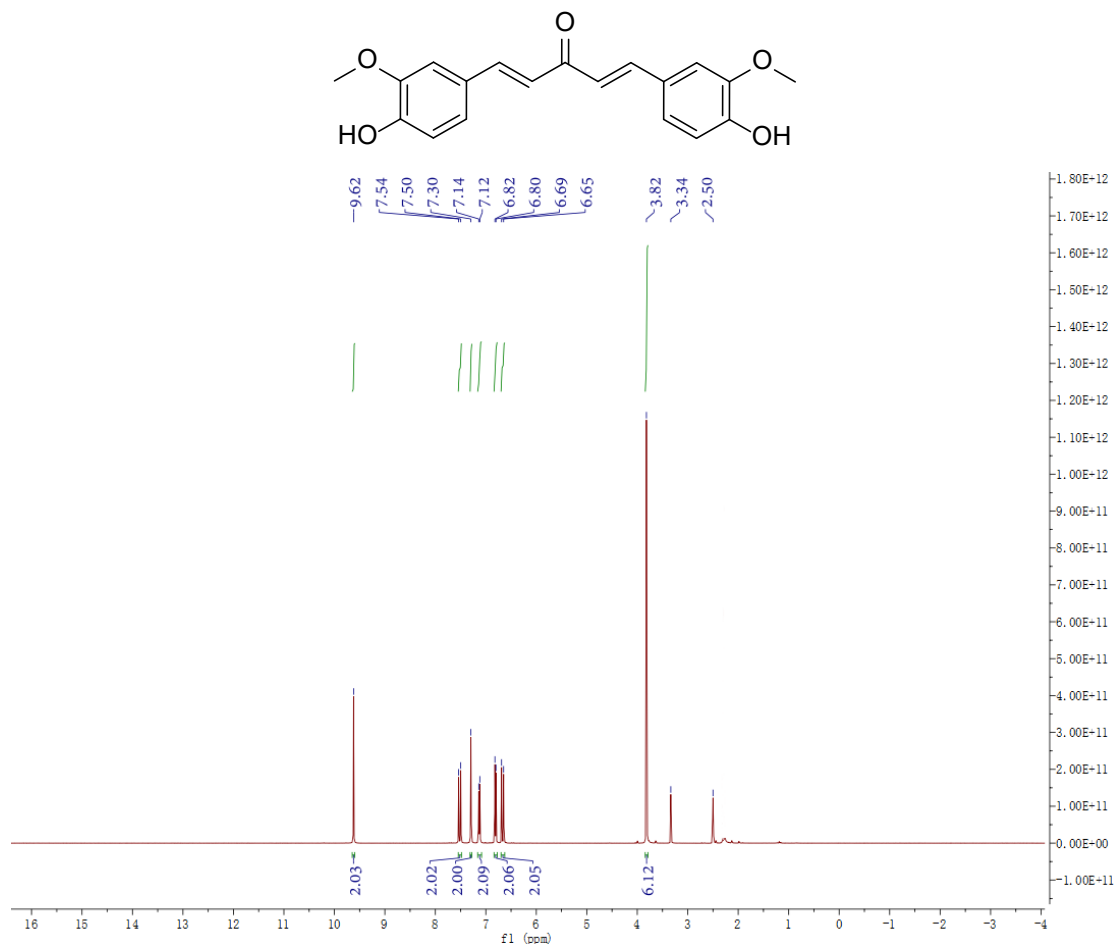


Figure S1. ¹H-NMR spectrum of compound 2

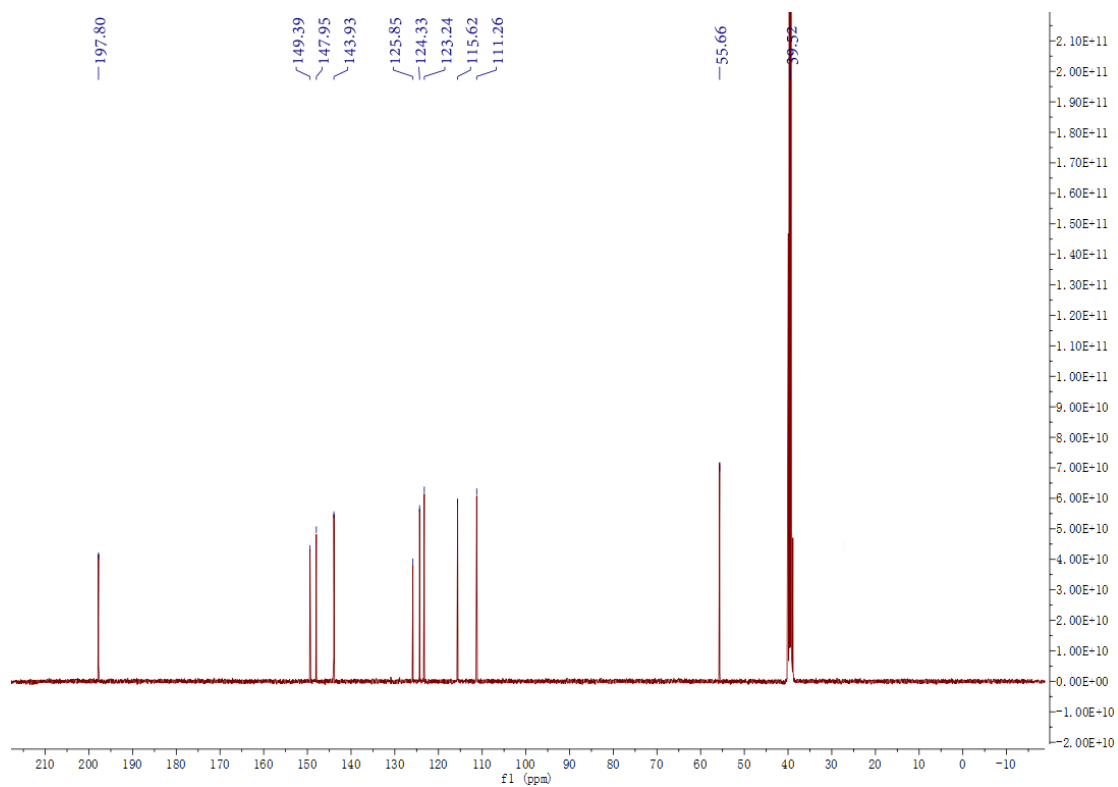
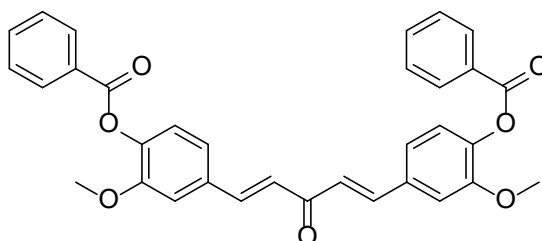


Figure S2. ^{13}C -NMR spectrum of compound **2**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) dibenzoate (**G1**)



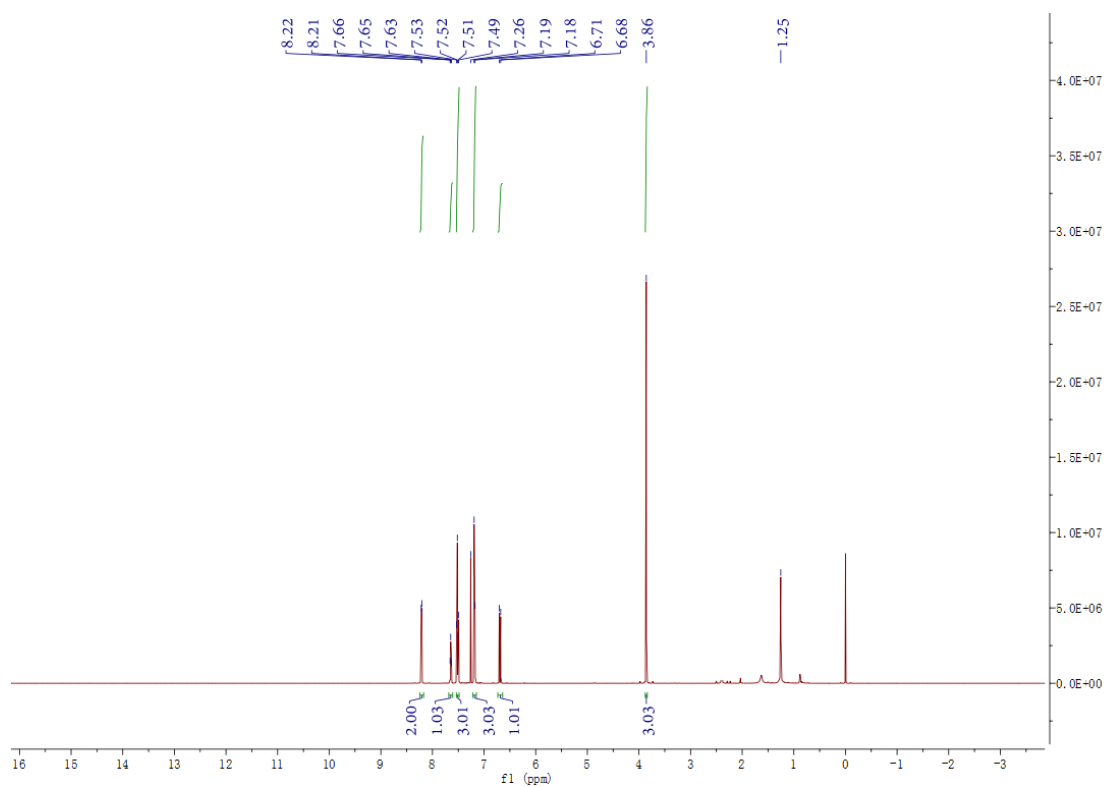


Figure S3. ¹H-NMR spectrum of compound **G1**

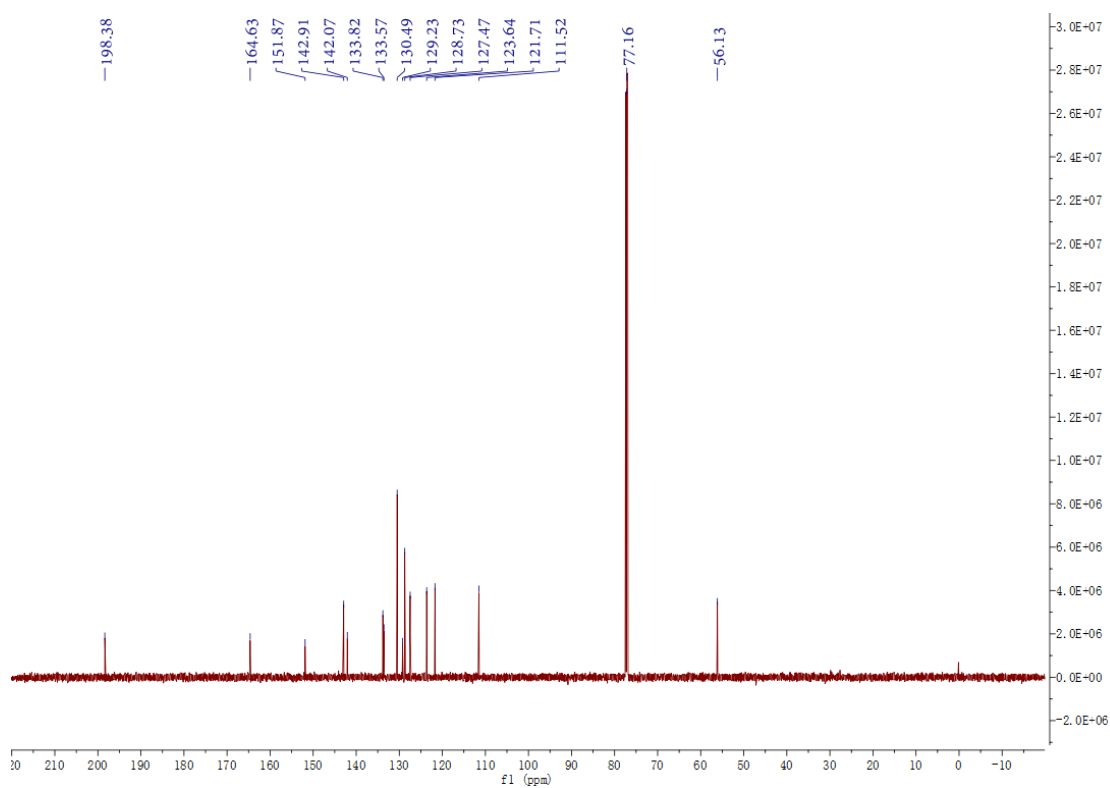


Figure S4. ¹³C-NMR spectrum of compound **G1**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) bis(4-fluorobenzoate) (**G2**)

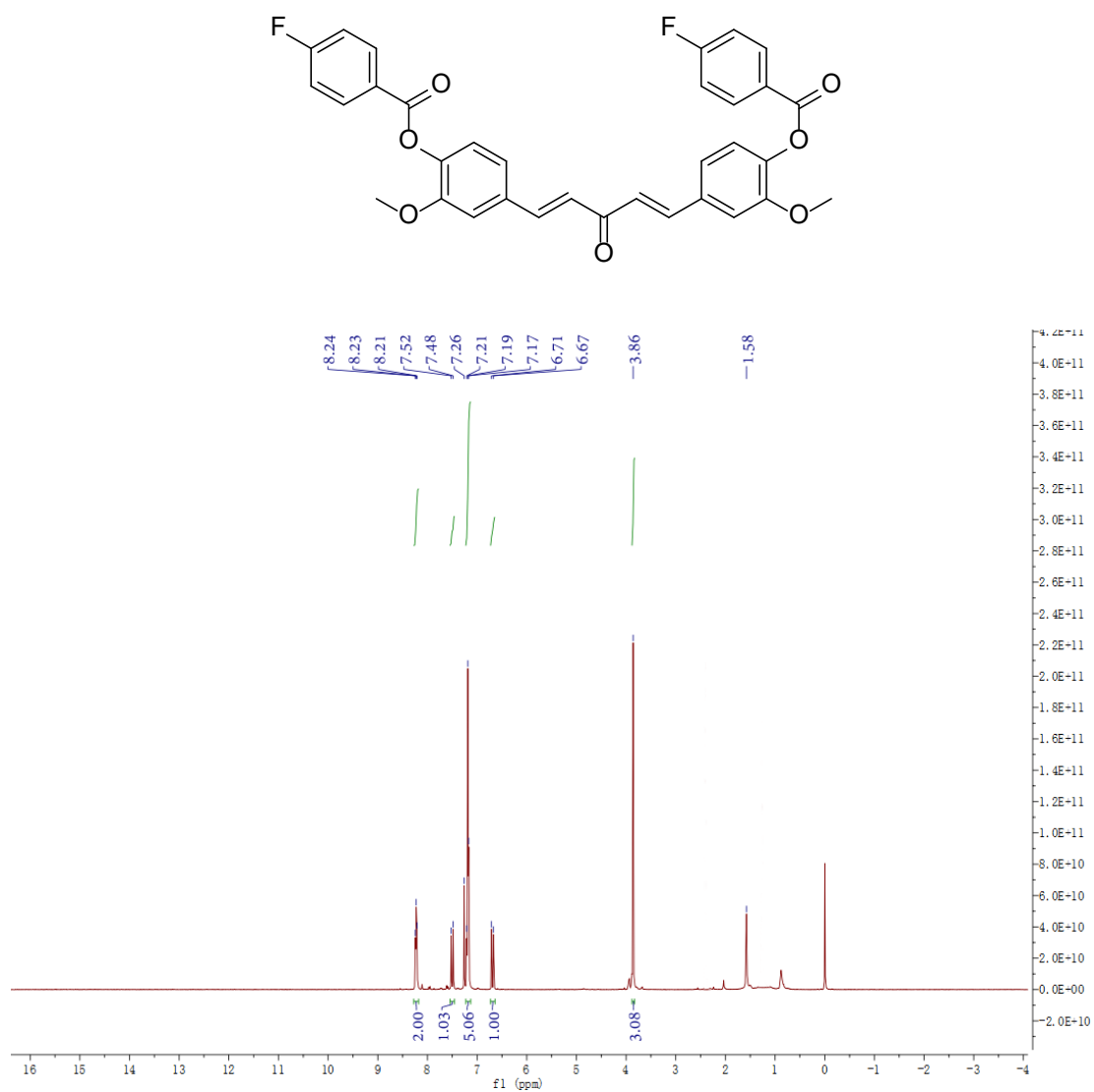


Figure S5. ¹H-NMR spectrum of compound **G2**

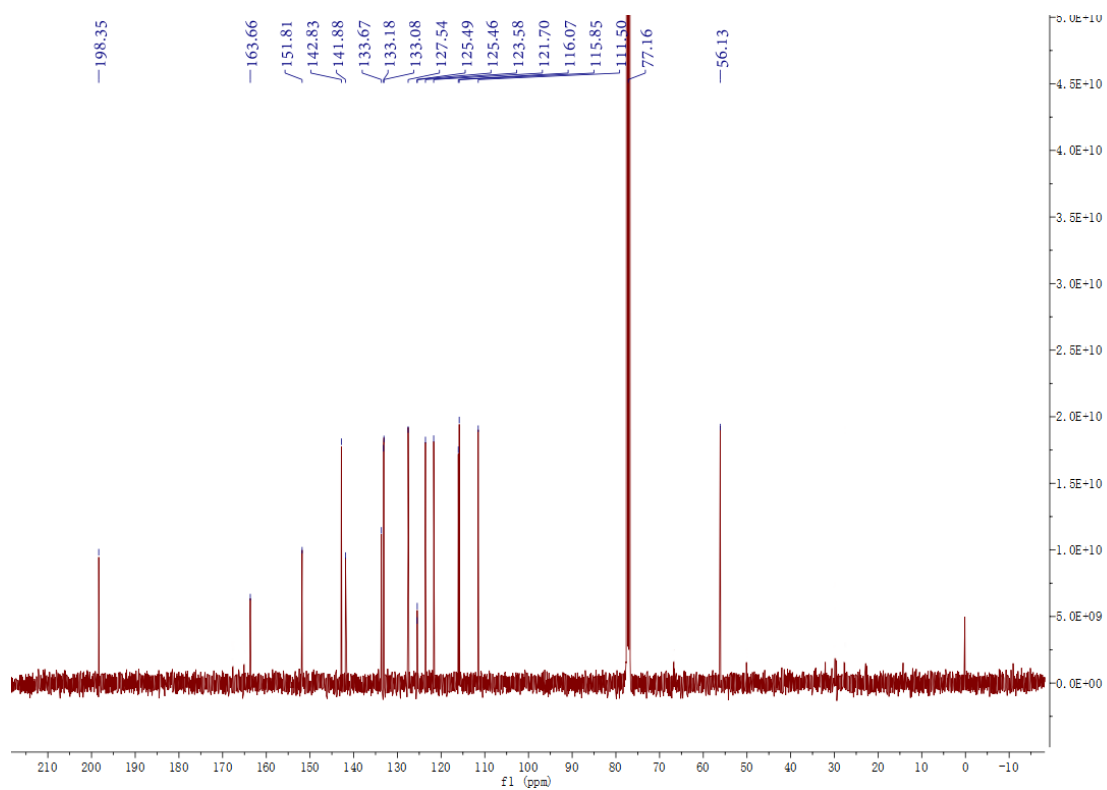
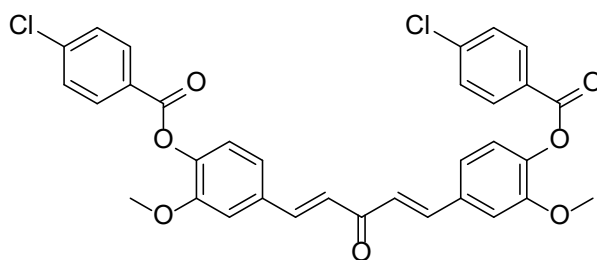


Figure S6. ^{13}C -NMR spectrum of compound **G2**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) bis(4-chlorobenzoate) (**G3**)



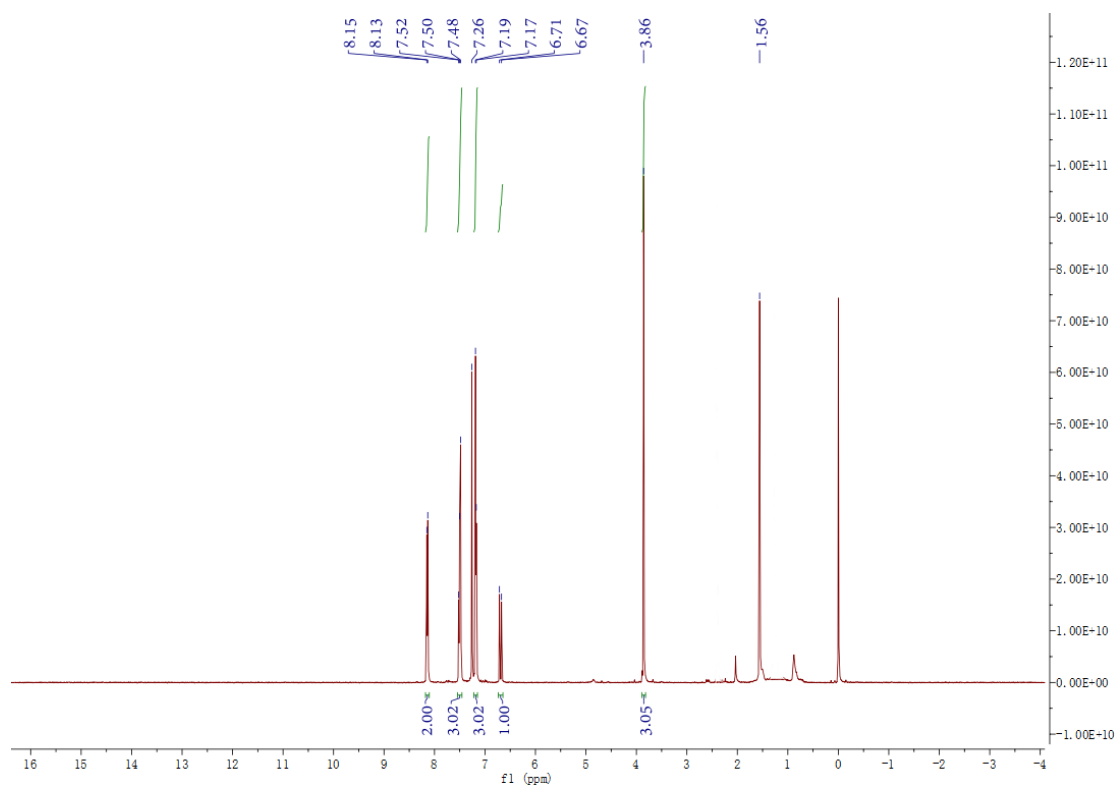


Figure S7. ¹H-NMR spectrum of compound **G3**

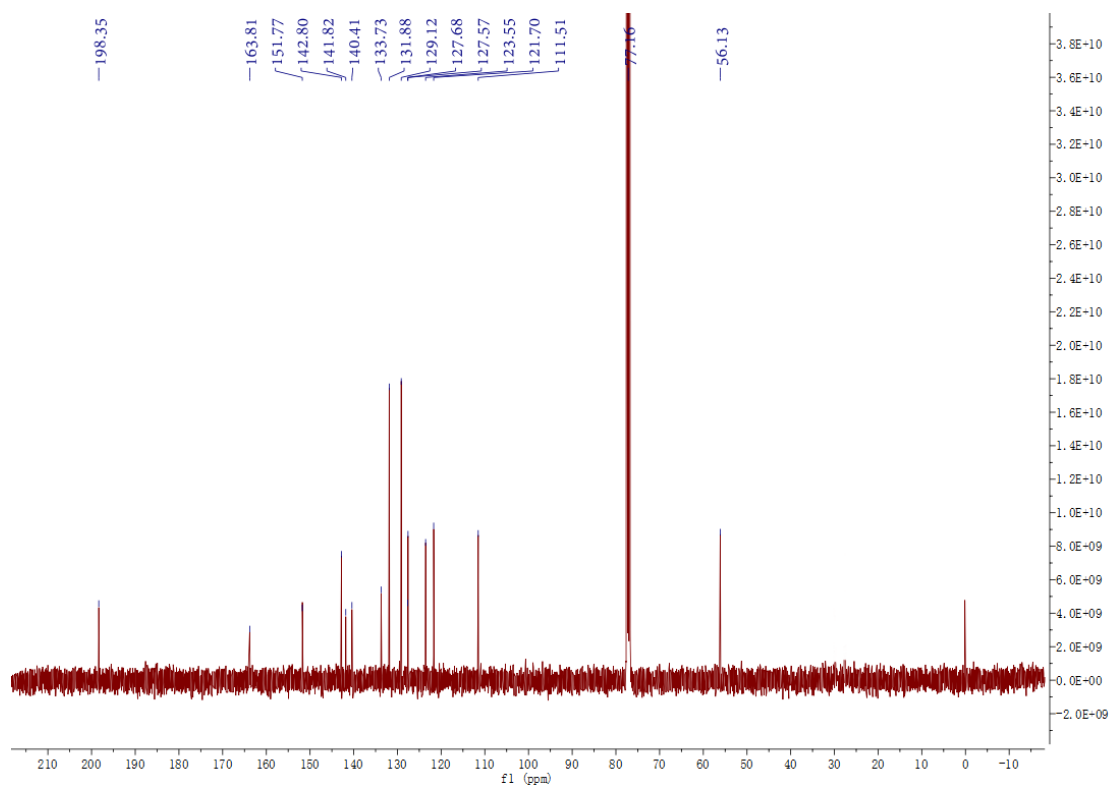


Figure S8. ¹³C-NMR spectrum of compound **G3**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) bis(4-bromobenzoate) (**G4**)

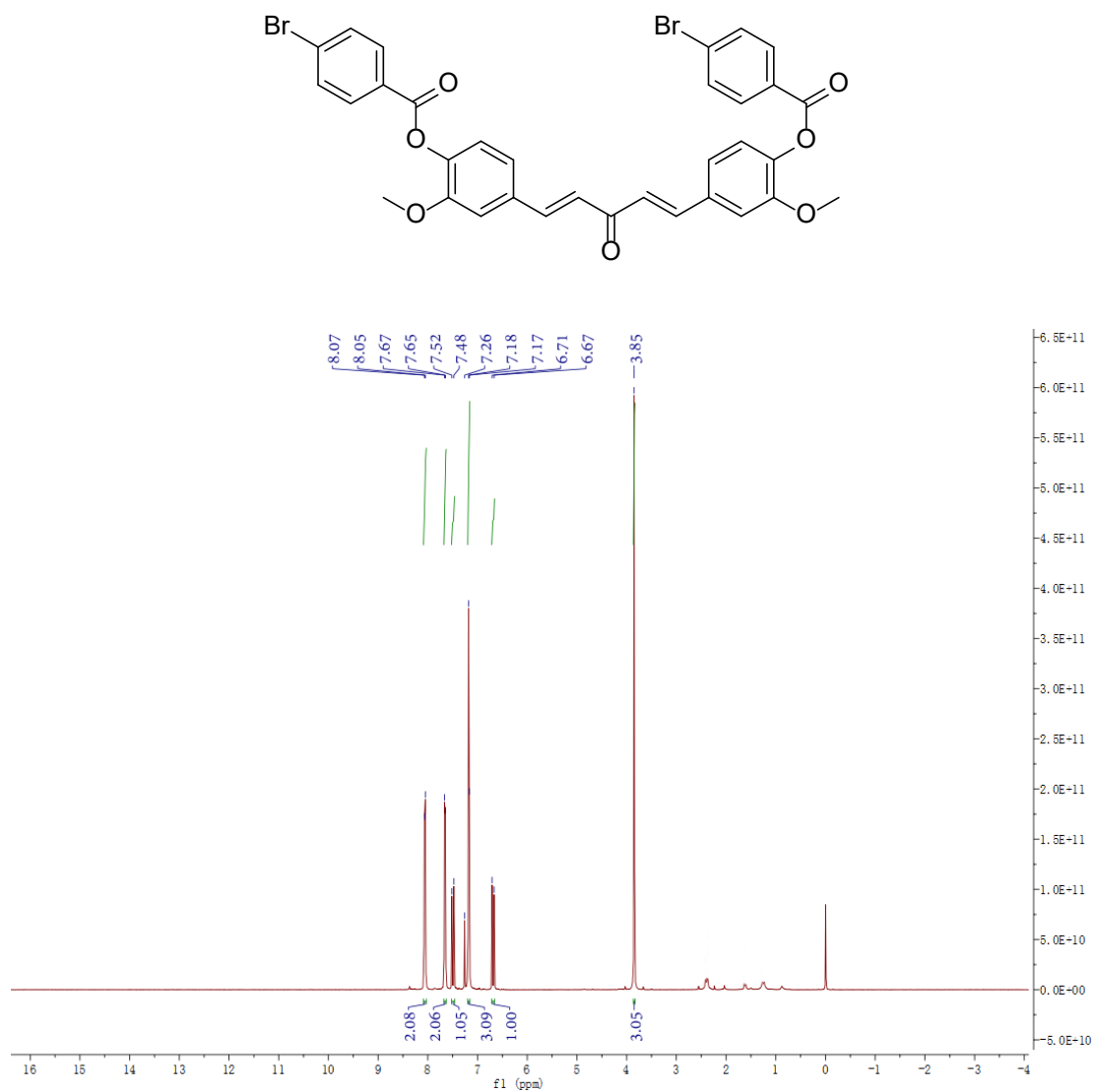


Figure S9. ¹H-NMR spectrum of compound **G4**

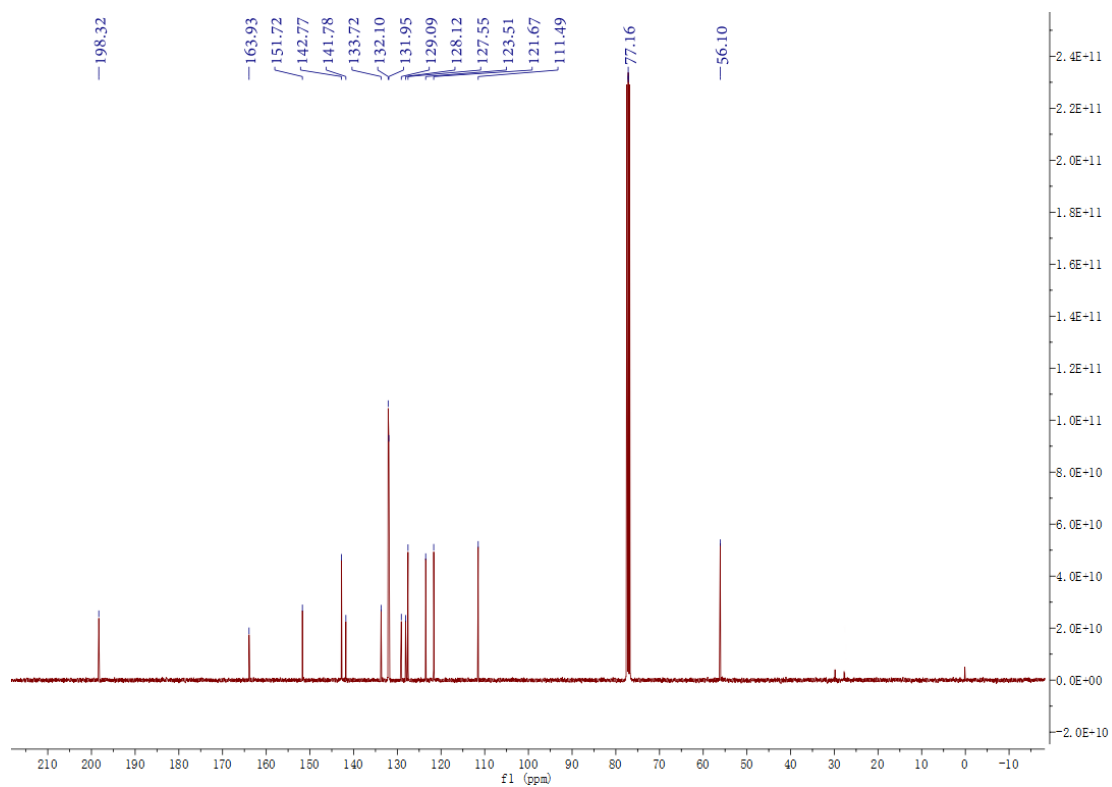
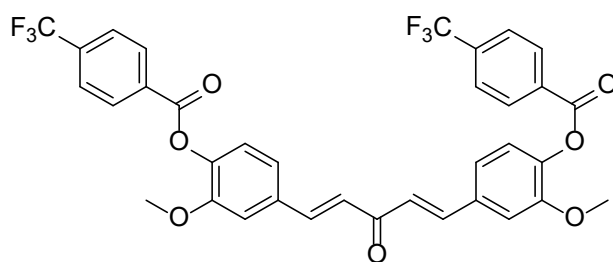


Figure S10. ^{13}C -NMR spectrum of compound **G4**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) bis(4-(trifluoromethyl)benzoate) (**G5**)



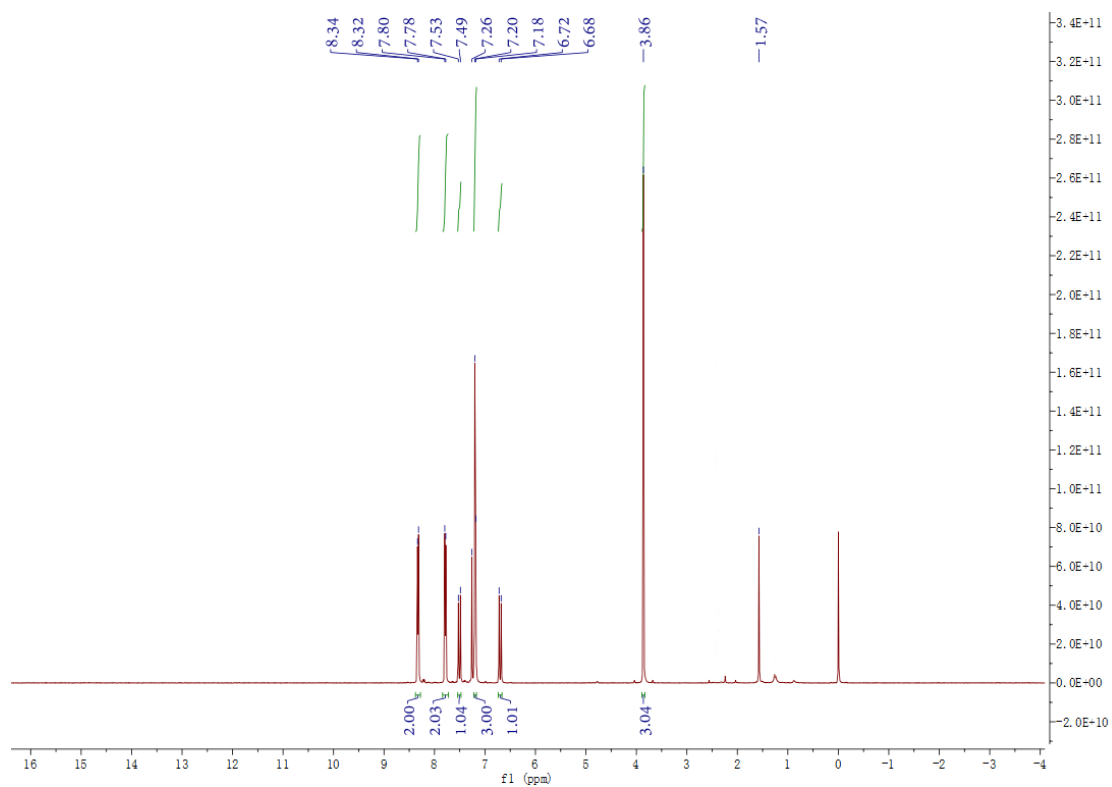


Figure S11. ¹H-NMR spectrum of compound **G5**

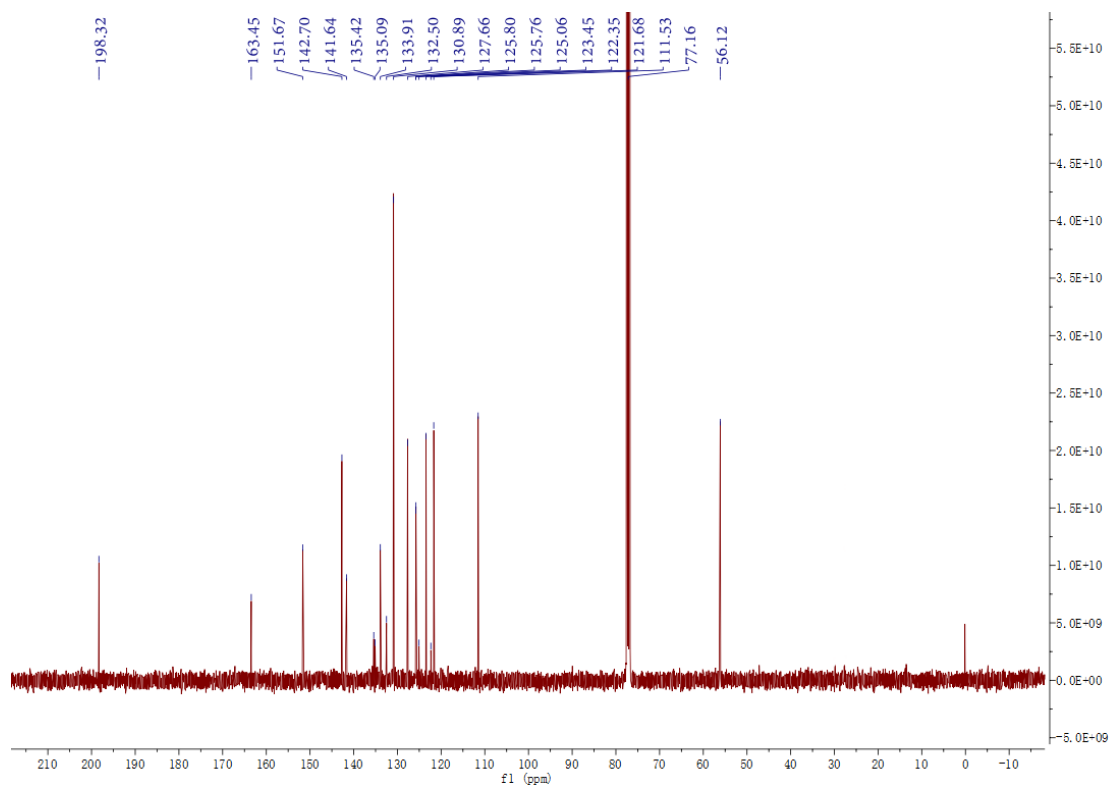


Figure S12. ¹³C-NMR spectrum of compound **G5**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) bis(2-hydroxybenzoate)

(G6)

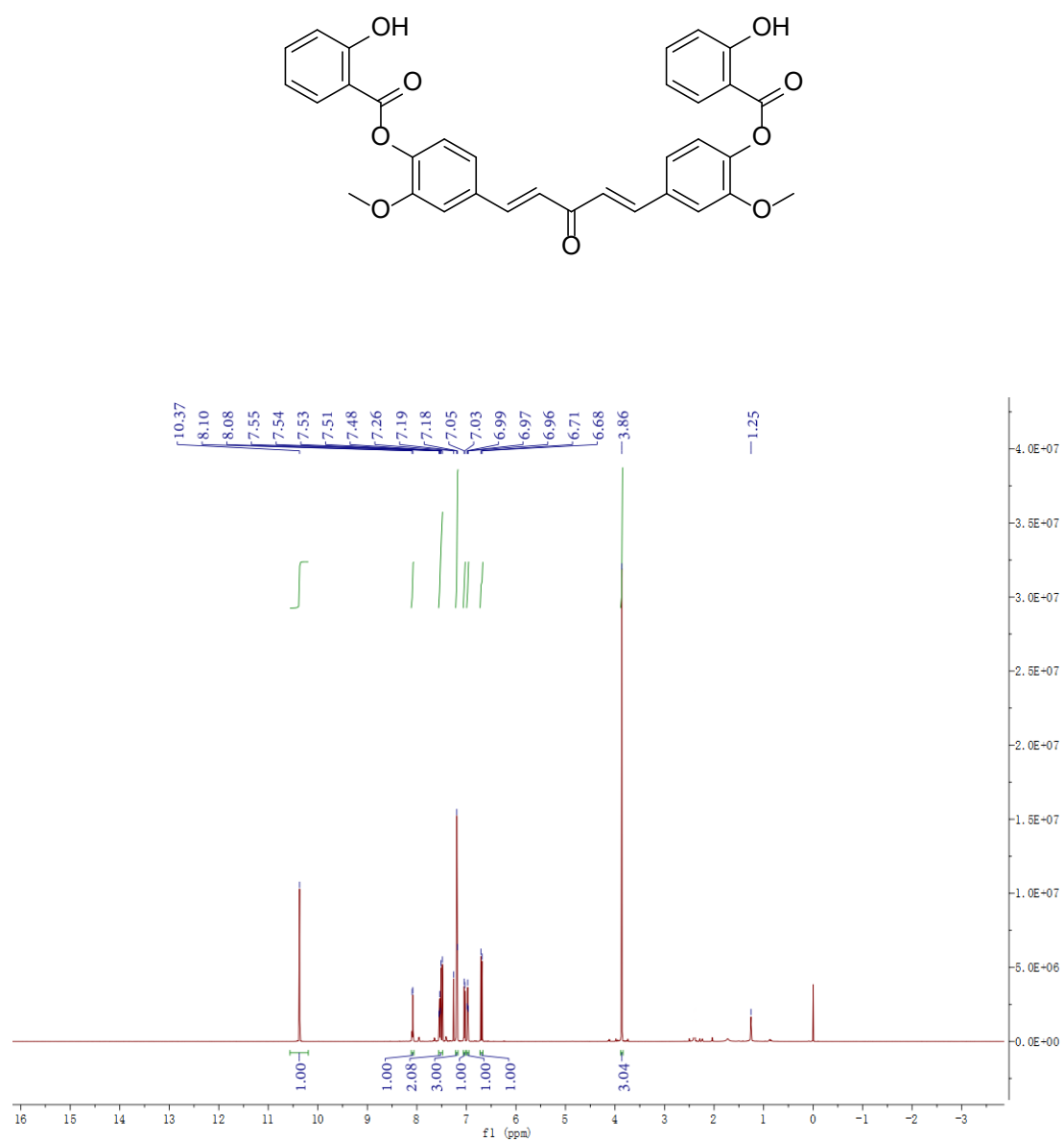


Figure S13. ¹H-NMR spectrum of compound G6

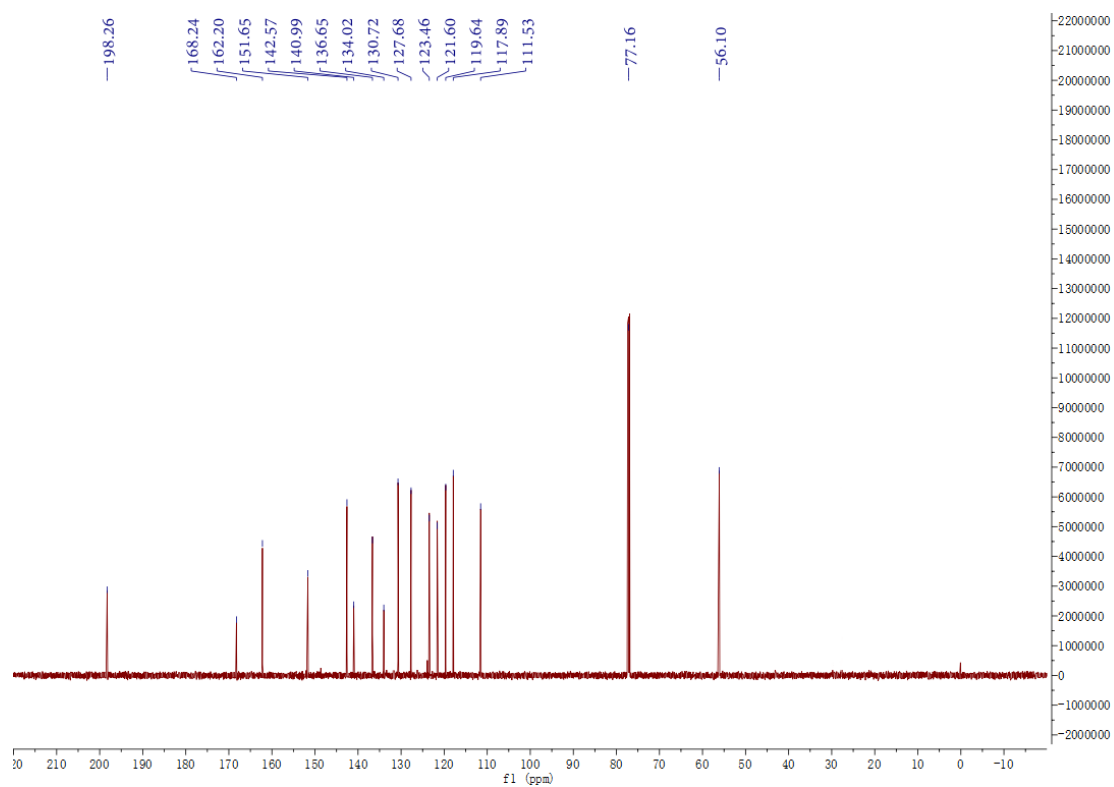
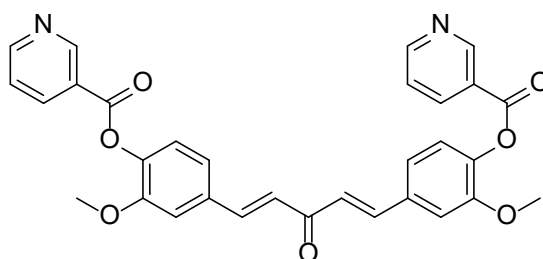


Figure S14. ^{13}C -NMR spectrum of compound **G6**

((1E,4E)-3-oxopenta-1,4-diene-1,5-diyl)bis(2-methoxy-4,1-phenylene) dinicotinate (**G7**)



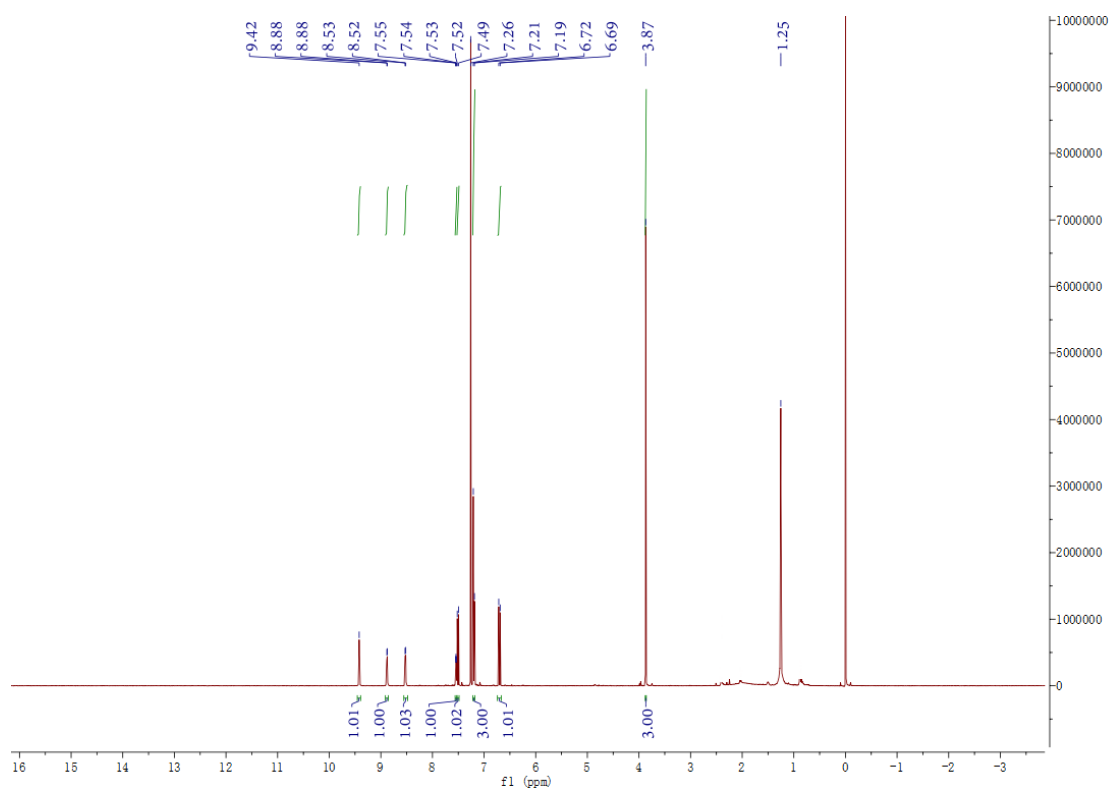


Figure S15. ¹H-NMR spectrum of compound **G7**

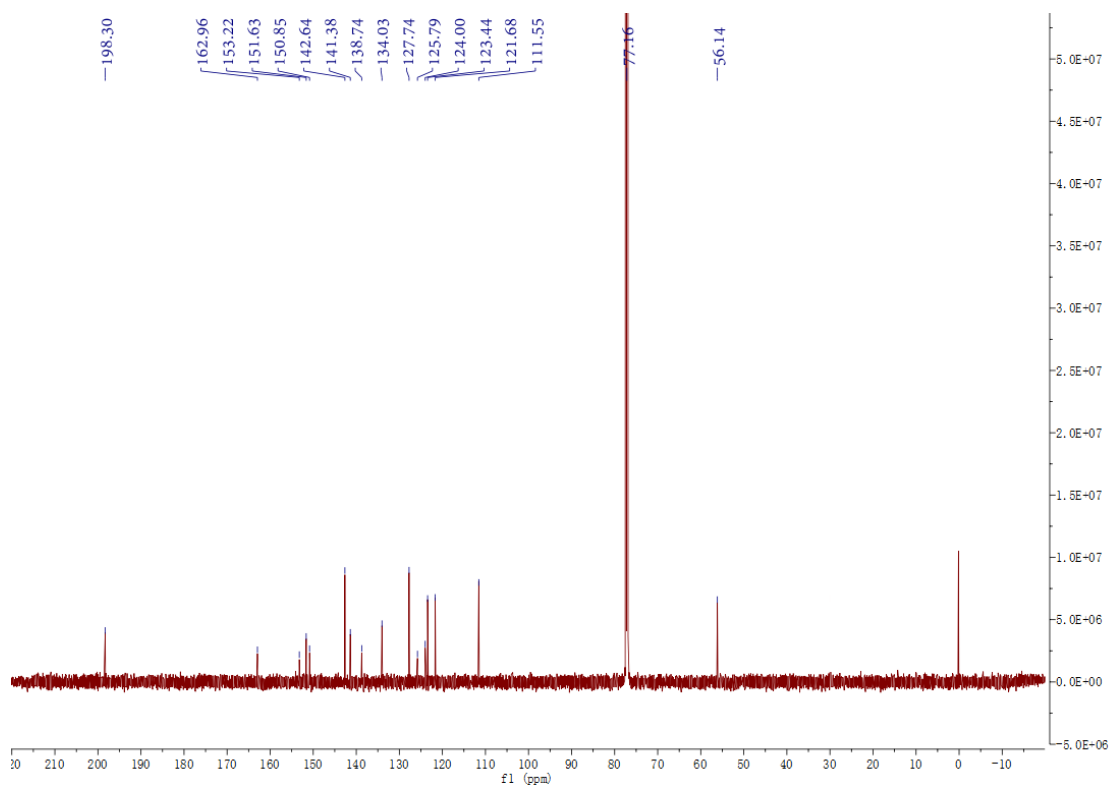


Figure S16. ¹³C-NMR spectrum of compound **G7**