

## Supporting Information

*Org. Commun.* 11:1 (2018) 62-67

### A simplified synthetic route and study of anticancer activity of Ethyl 2-(4-fluorophenyl)-5-hydroxy-6-nitrobenzofuran-3-carboxylate and its methyl derivative

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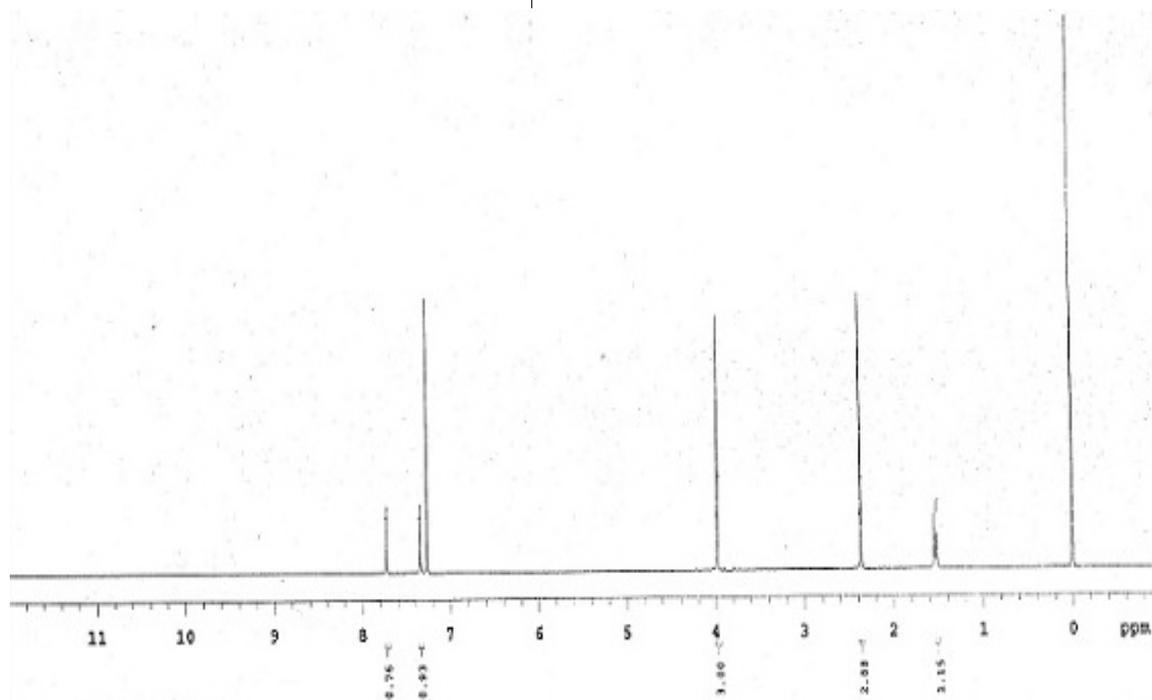
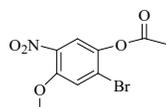


Figure S1.  $^1\text{H}$  NMR spectrum of 2-bromo-4-methoxy-5-nitrophenylacetate (**2**)

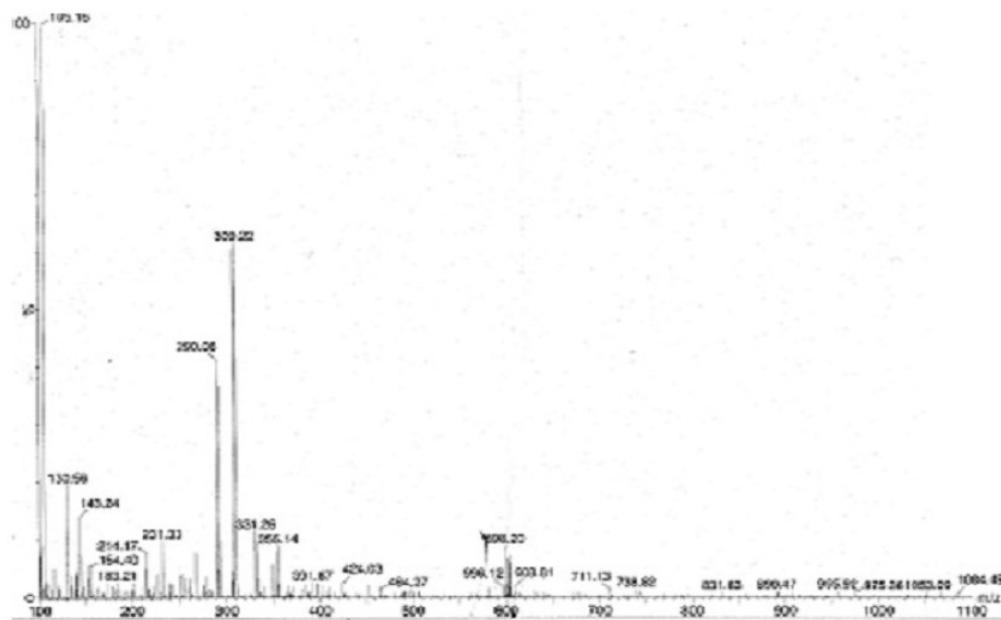
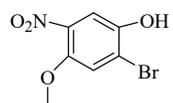


Figure S2. Mass spectrum of 2-bromo-4-methoxy-5-nitrophenylacetate (**2**)



Solvent: cdcl3  
Date: 2014-02-04  
Agilent Mercury-300/ MM-1  
Request No: 2214038154\_P00000

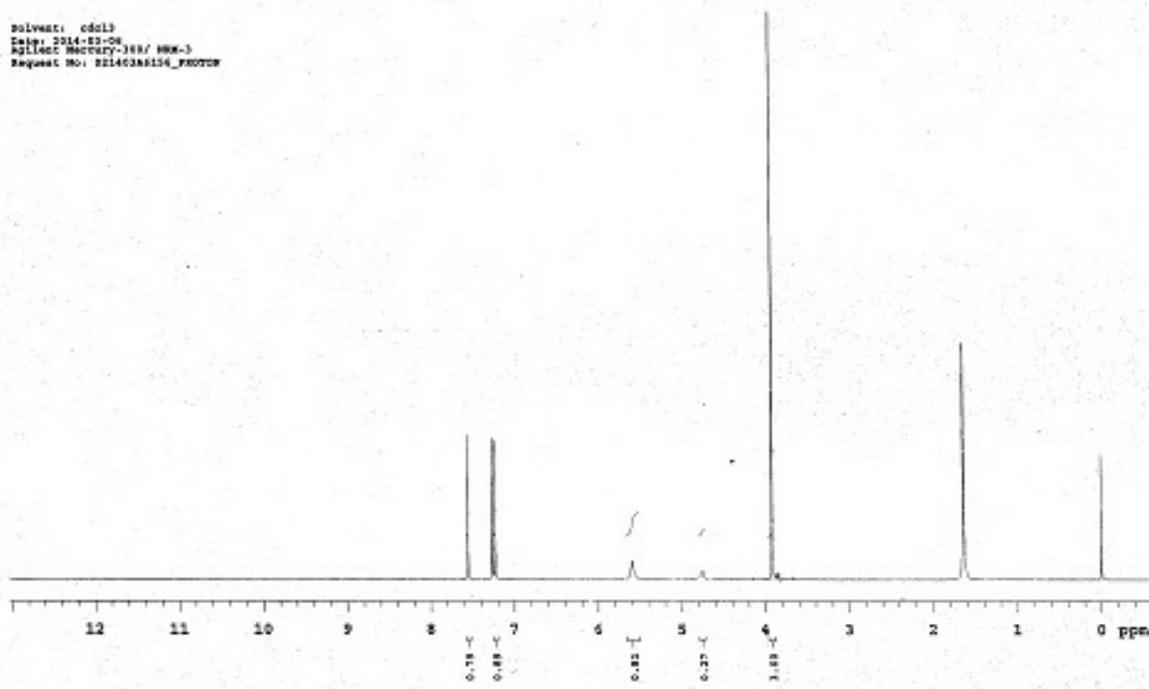


Figure S3. <sup>1</sup>H NMR spectrum of acetate of 2-bromo-4-methoxy-5-nitrophenol (3)

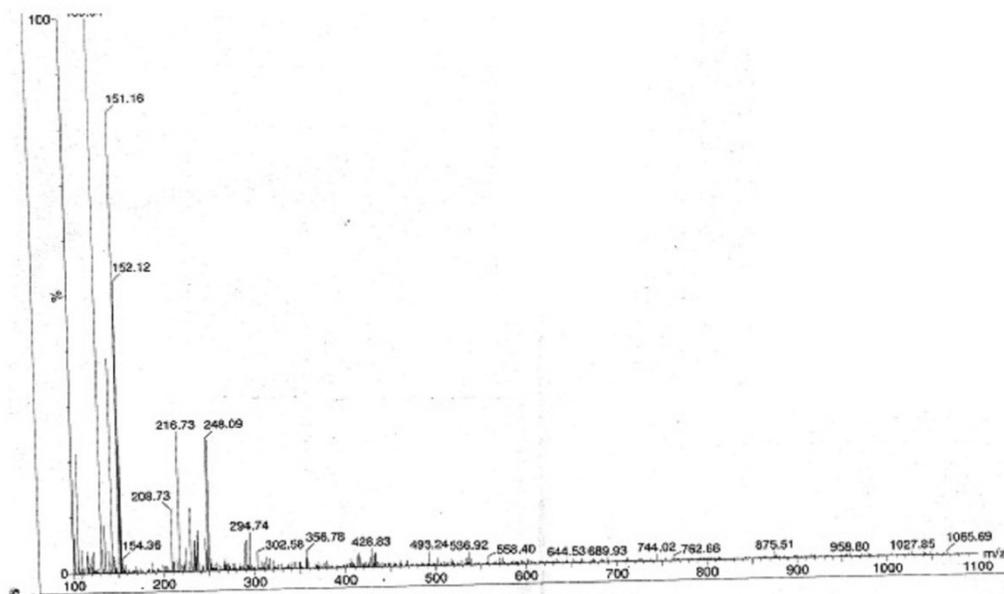


Figure S4. Mass spectrum of acetate of 2-bromo-4-methoxy-5-nitrophenol (3)

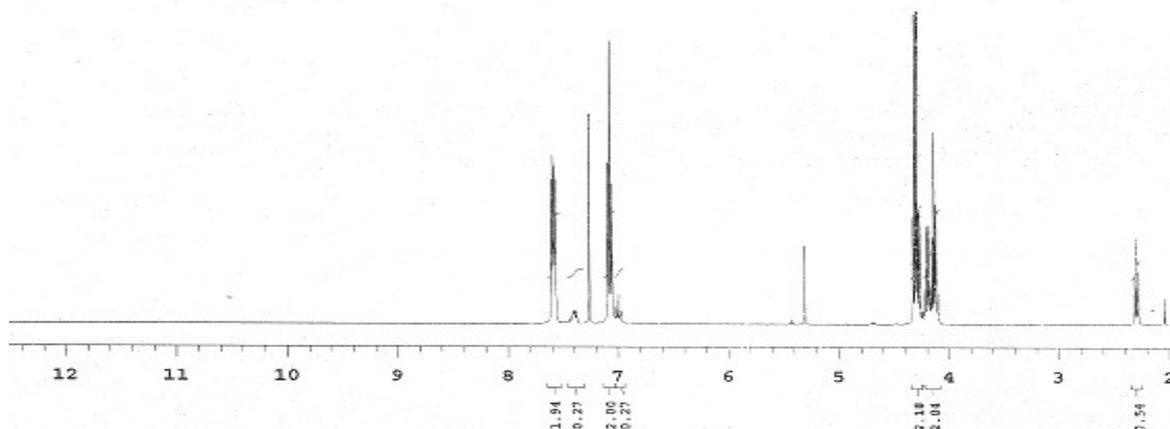
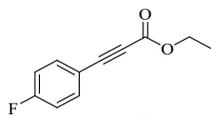


Figure S5. <sup>1</sup>H NMR spectra of ethyl-(P-fluorophenylpropynoate) (5)

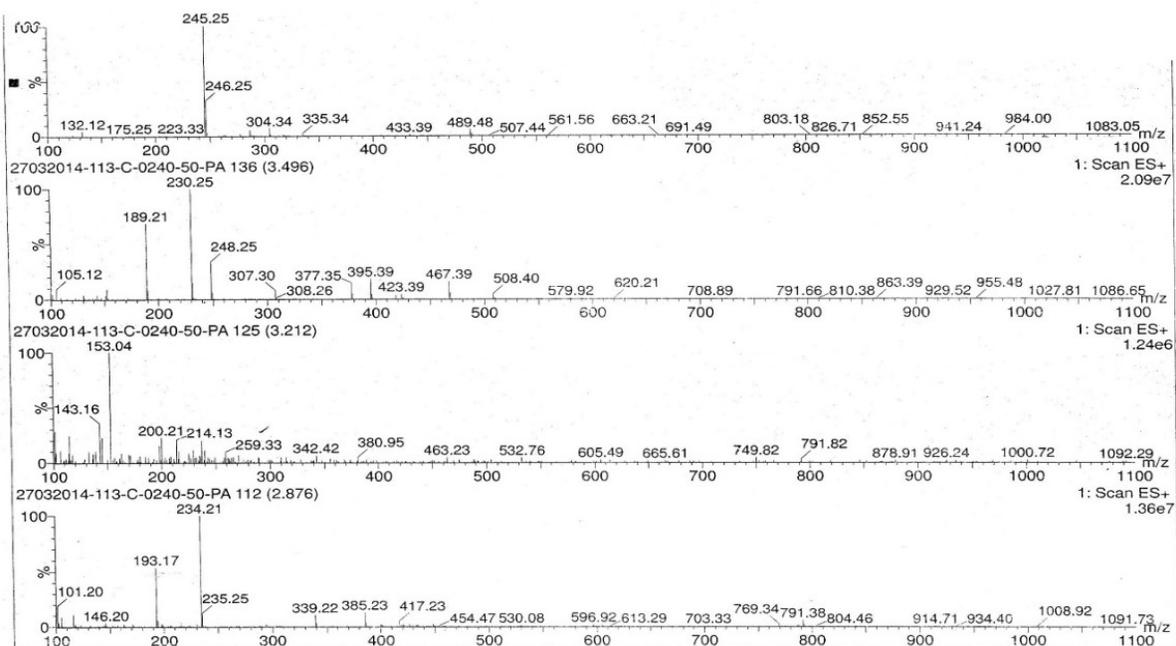
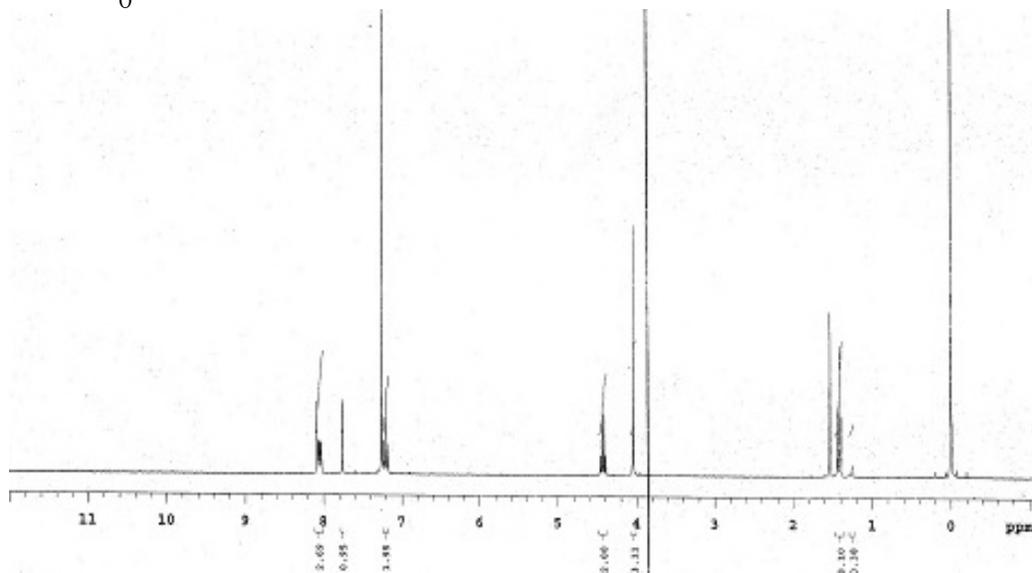
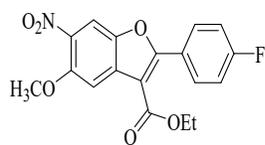
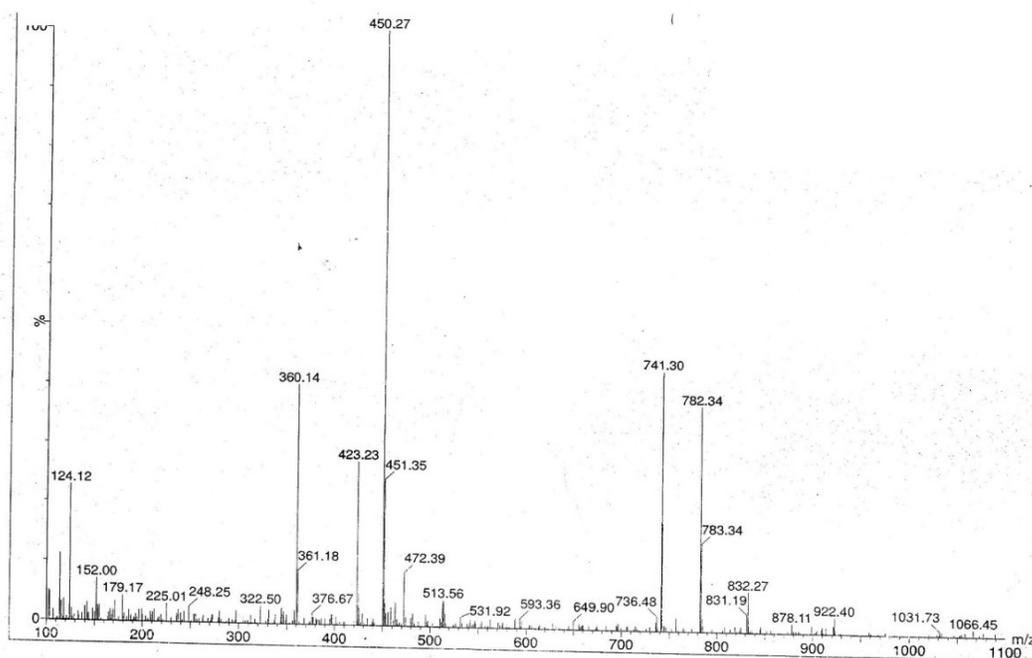


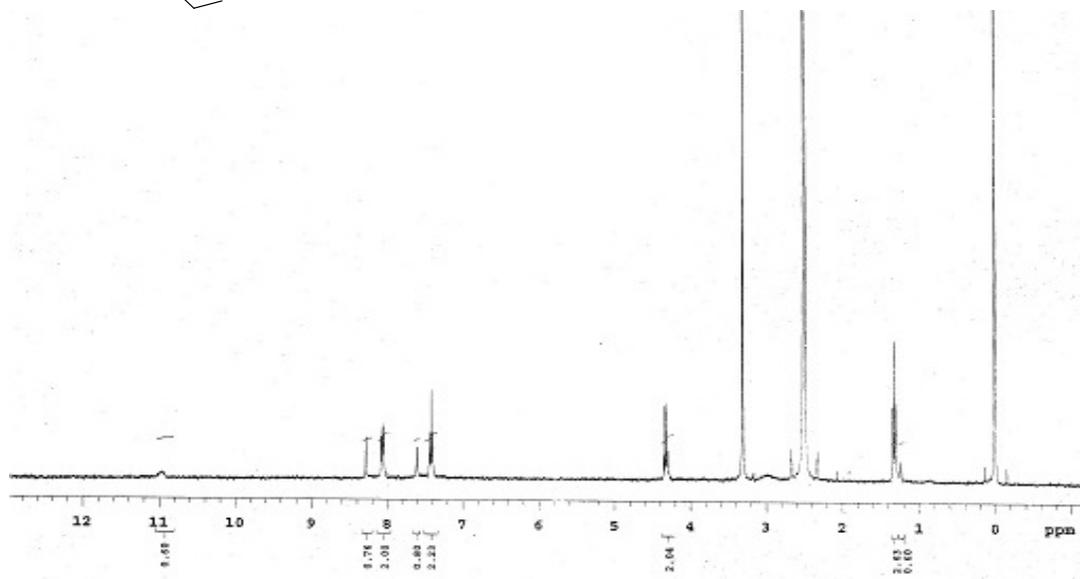
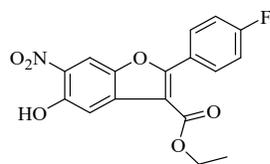
Figure S6. MASS spectrum of ethyl-(P-fluorophenylpropynoate) (5)



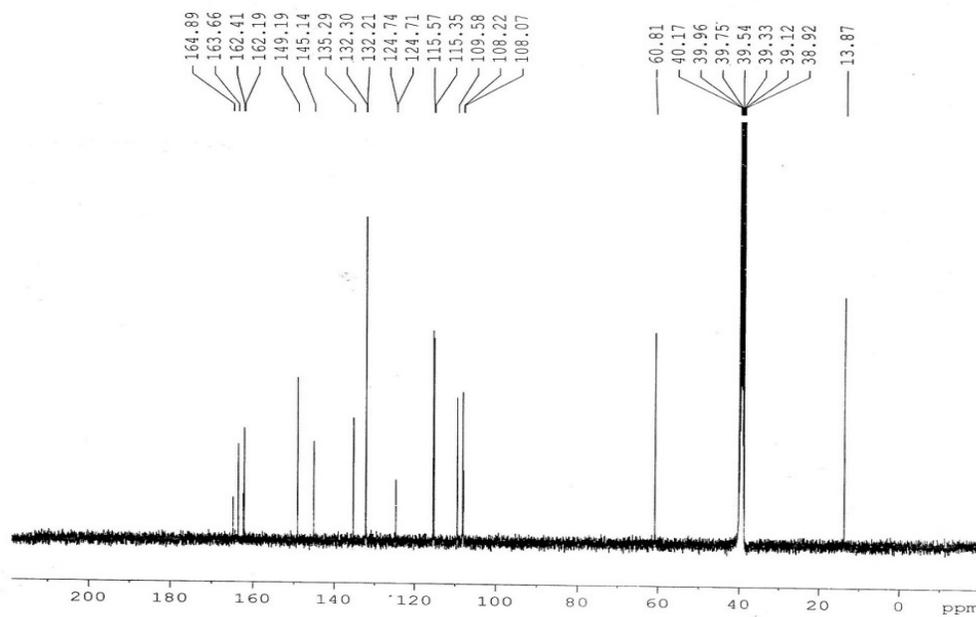
**Figure S7.** <sup>1</sup>H NMR spectrum of Ethyl ester of 2-(4-fluorophenyl)-5-methoxy-6-nitrobenzofuran-3-carboxylic acid (7)



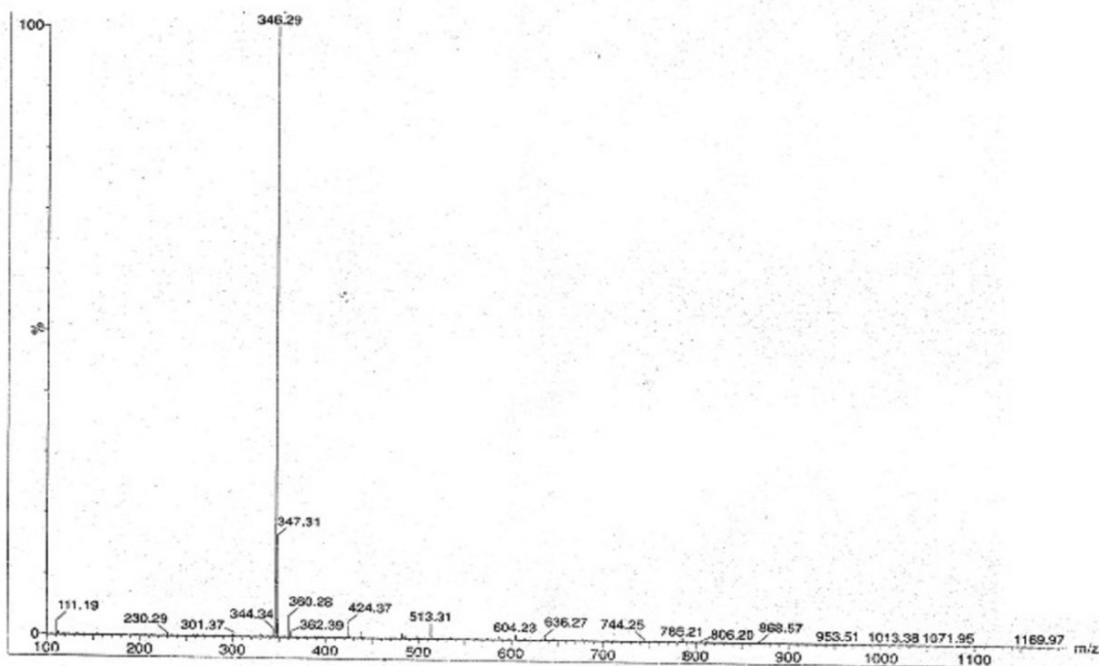
**Figure S8.** Mass spectra of Ethyl ester of 2-(4-fluorophenyl)-5-methoxy-6-nitrobenzofuran-3-carboxylic acid (7)



**Figure S9.**  $^1\text{H}$  NMR spectrum of Ethyl ester of 2-(4-fluorophenyl)-5-hydroxy-6-nitrobenzofuran-3-carboxylic acid (**8**)



**Figure S10.**  $^{13}\text{C}$  NMR spectrum of ethyl ester of 2-(4-fluorophenyl)-5-hydroxy-6-nitrobenzofuran-3-carboxylic acid (**8**)



**Figure S11.** Mass spectrum of ethyl ester of 2-(4-fluorophenyl)-5-hydroxy-6-nitrobenzofuran-3-carboxylic acid (**8**)