

Ethyl-1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1*H*-benzo[*d*]imidazole-5-carboxylate

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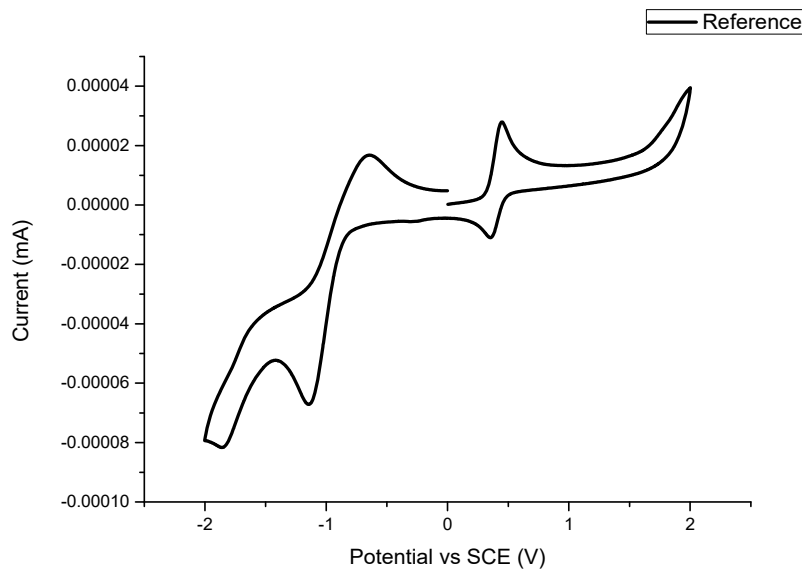
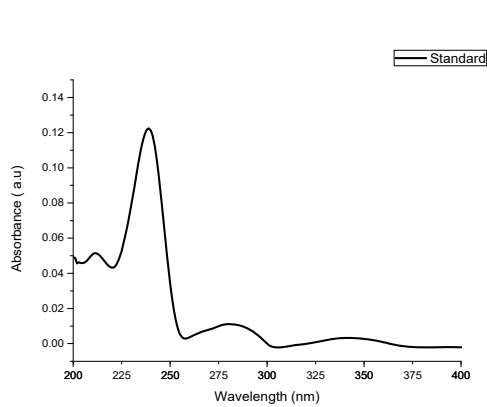
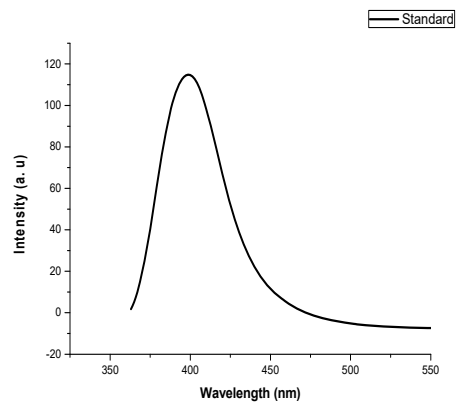


Figure S1: Cyclic voltammograms of **ferrocene** recorded in CH₃CN solutions containing 0.1M tetrabutylammoniumhexafluorophosphate as supporting electrolyte at a scan rate of 100 mV s⁻¹ using SCE as reference electrode, Pt wire as counter electrode and material coated glassy carbon as working electrode.



(i)



(ii)

Figure S2: Uv-Vis and PL of 2-naphthylamine

(i) UV-Vis absorption spectra of **2-naphthylamine** in ACN at room temperature, at 2 μM concentration

(ii) Emission spectra of **2-naphthylamine** in ACN at room temperature, at 2 μM concentration

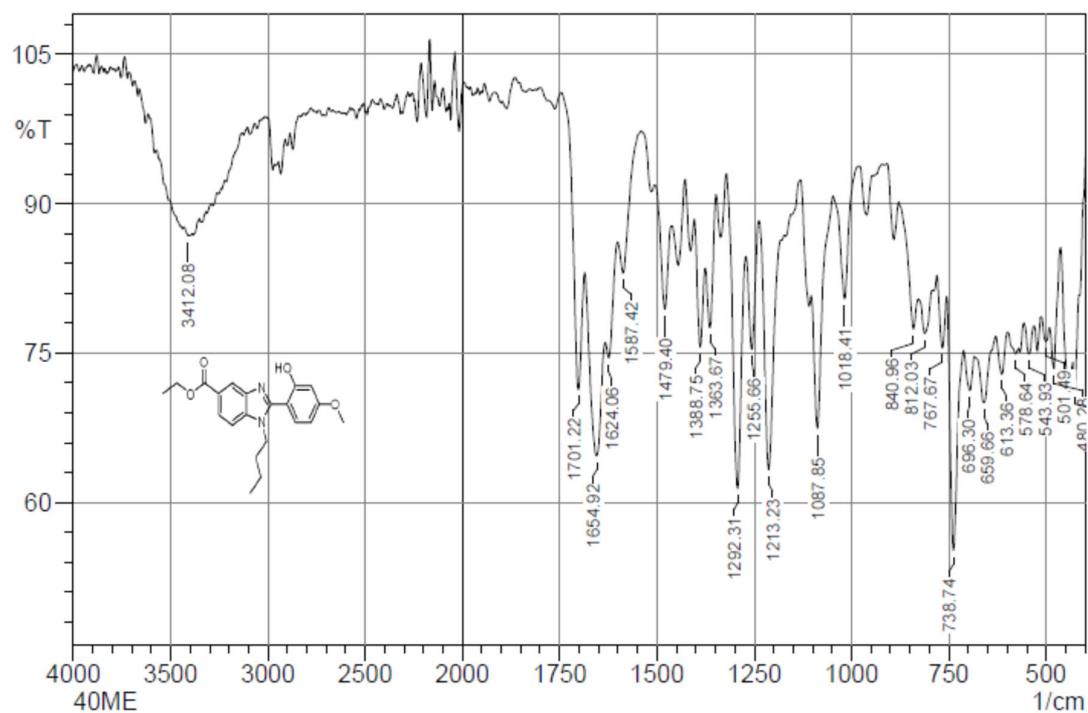


Figure S3: FT-IR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)

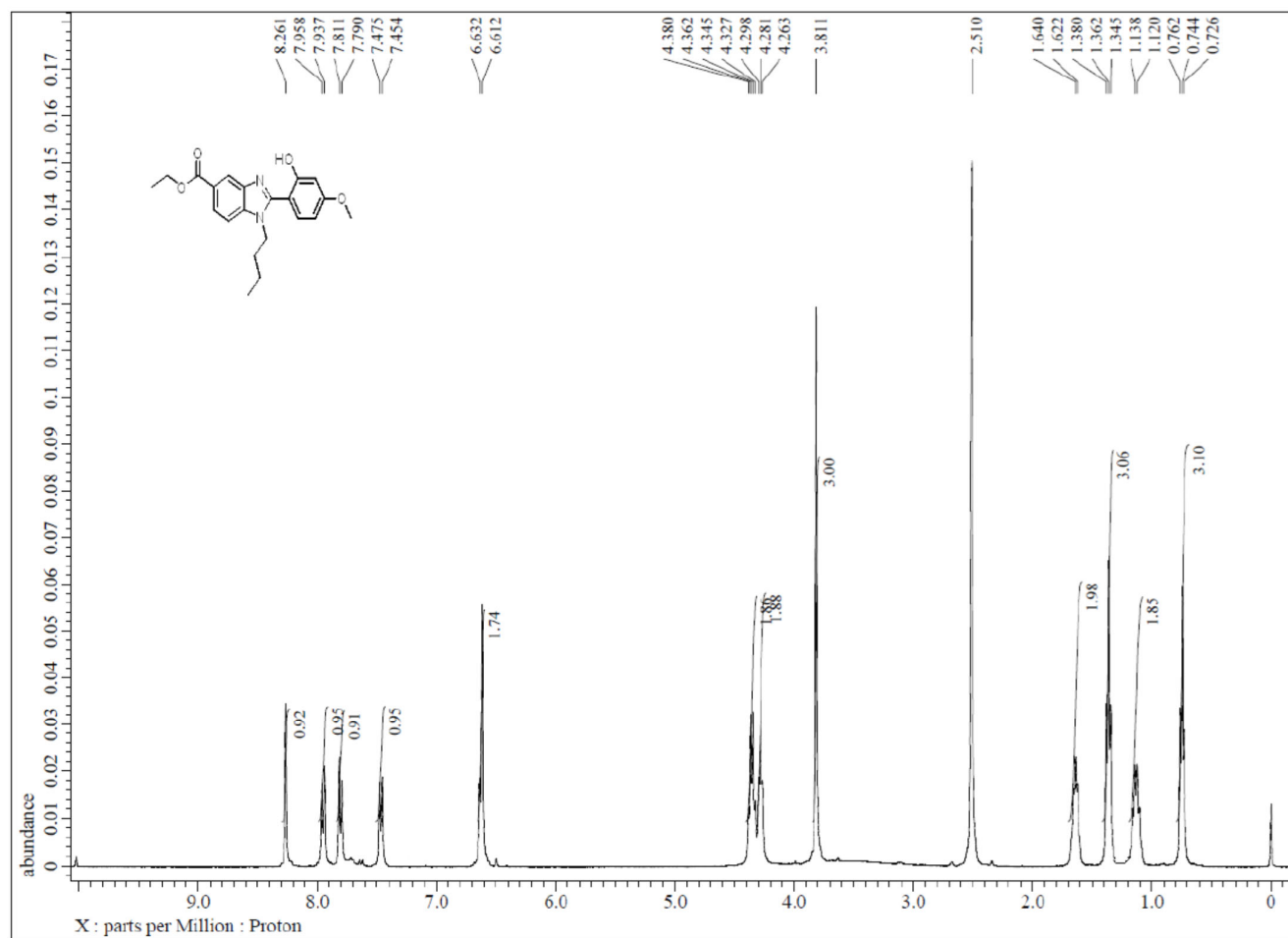


Figure S4: ^1H NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)

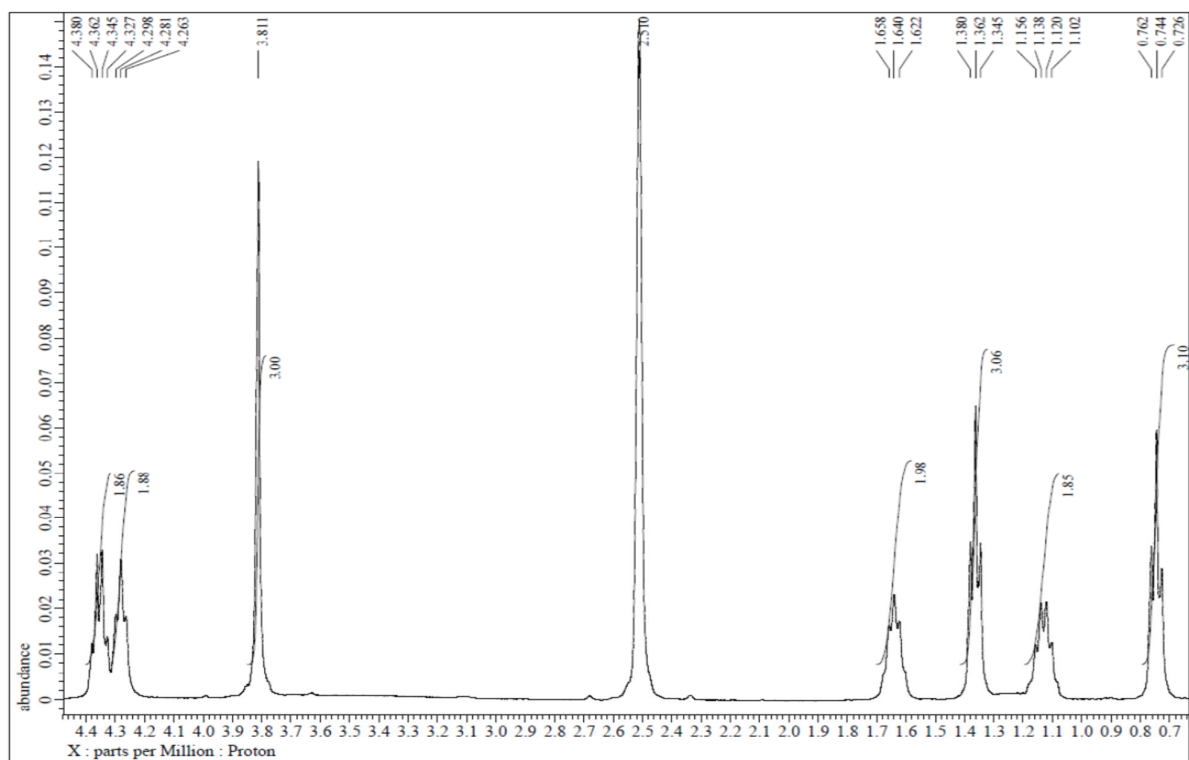


Figure S5: Expanded ^1H NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)

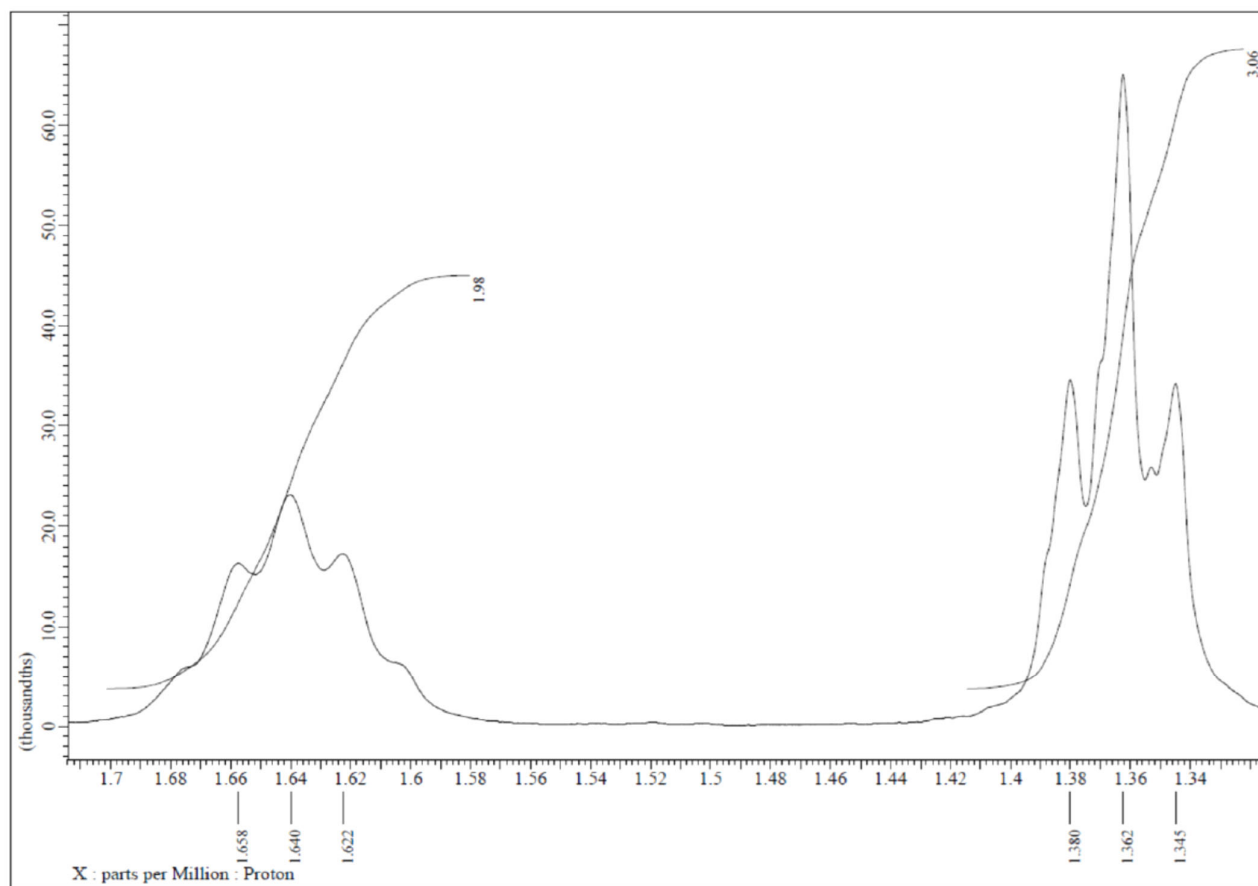


Figure S6: Expanded ^1H NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)

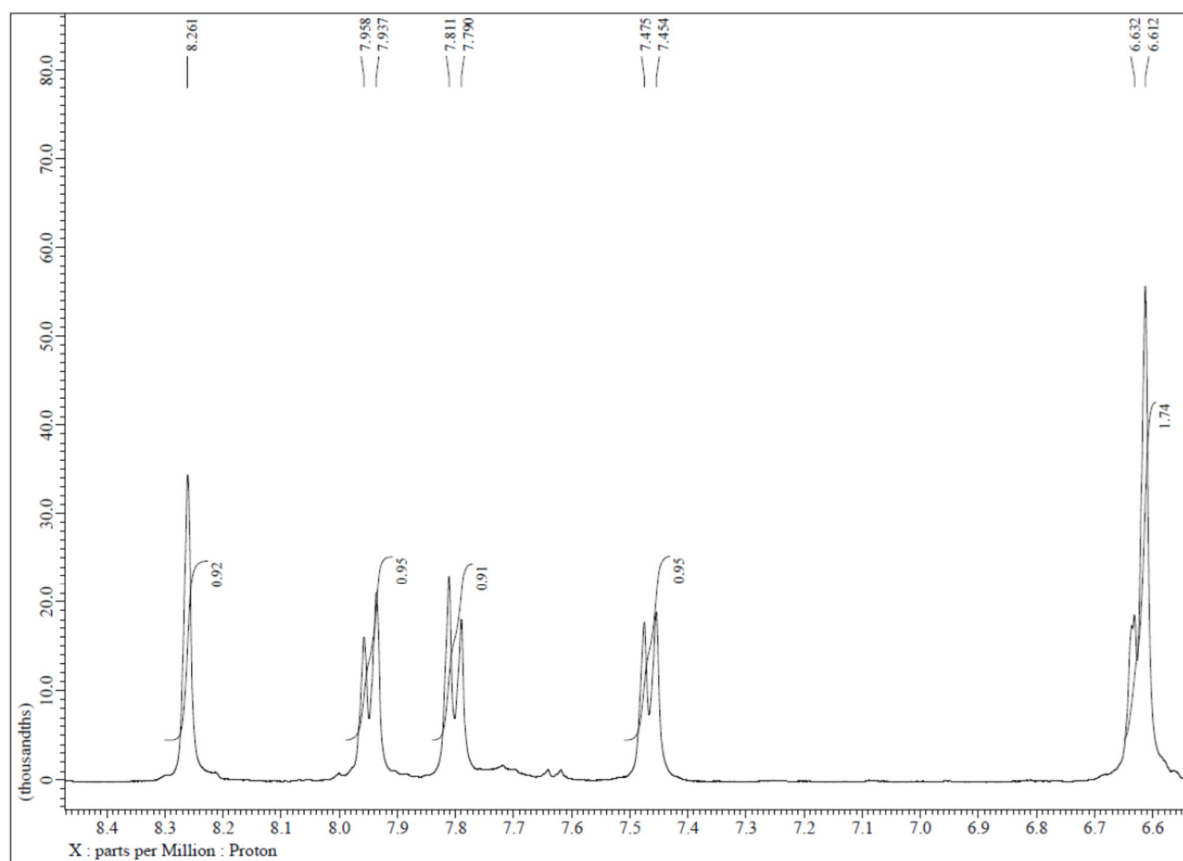


Figure S7: Expanded ^1H NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (**2**)

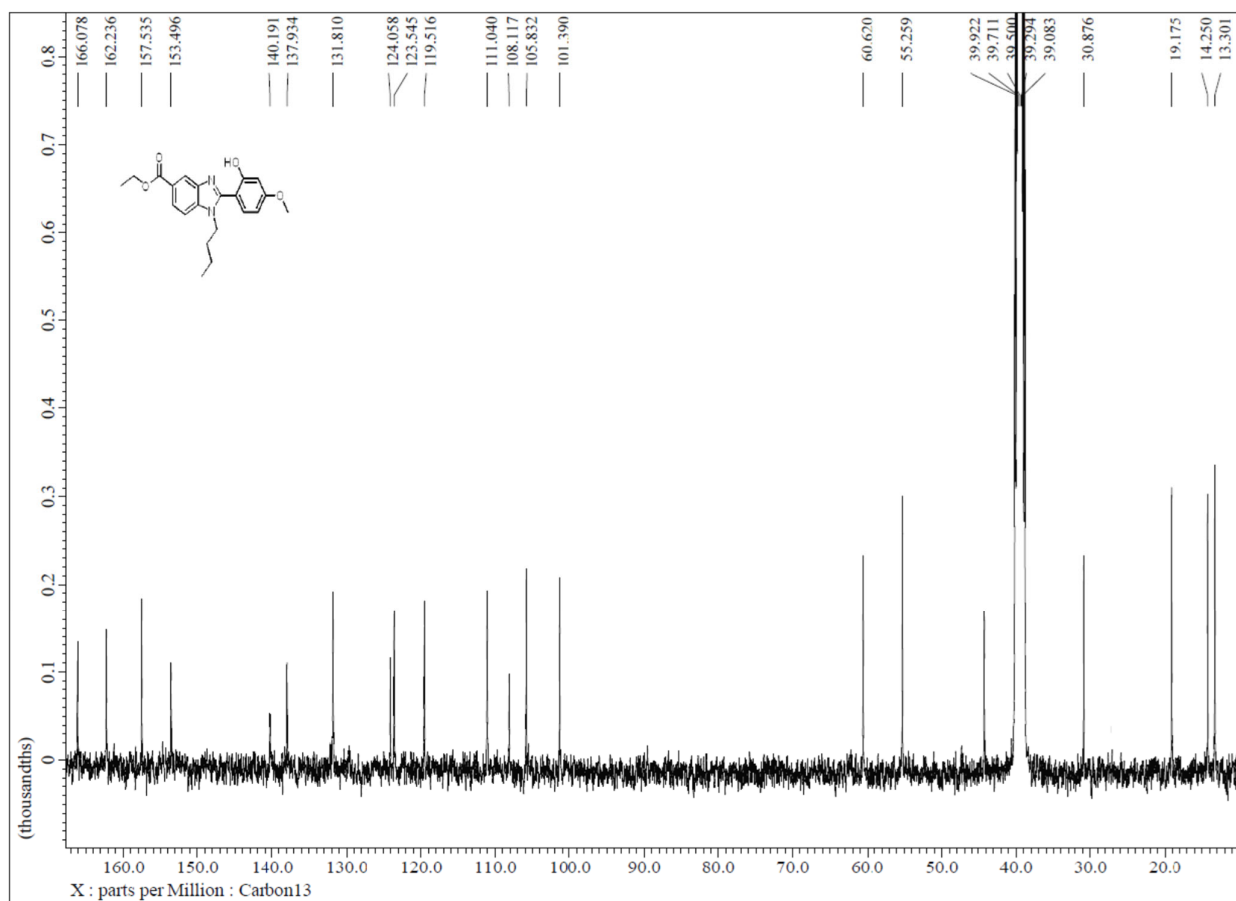


Figure S8: ¹³C NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)

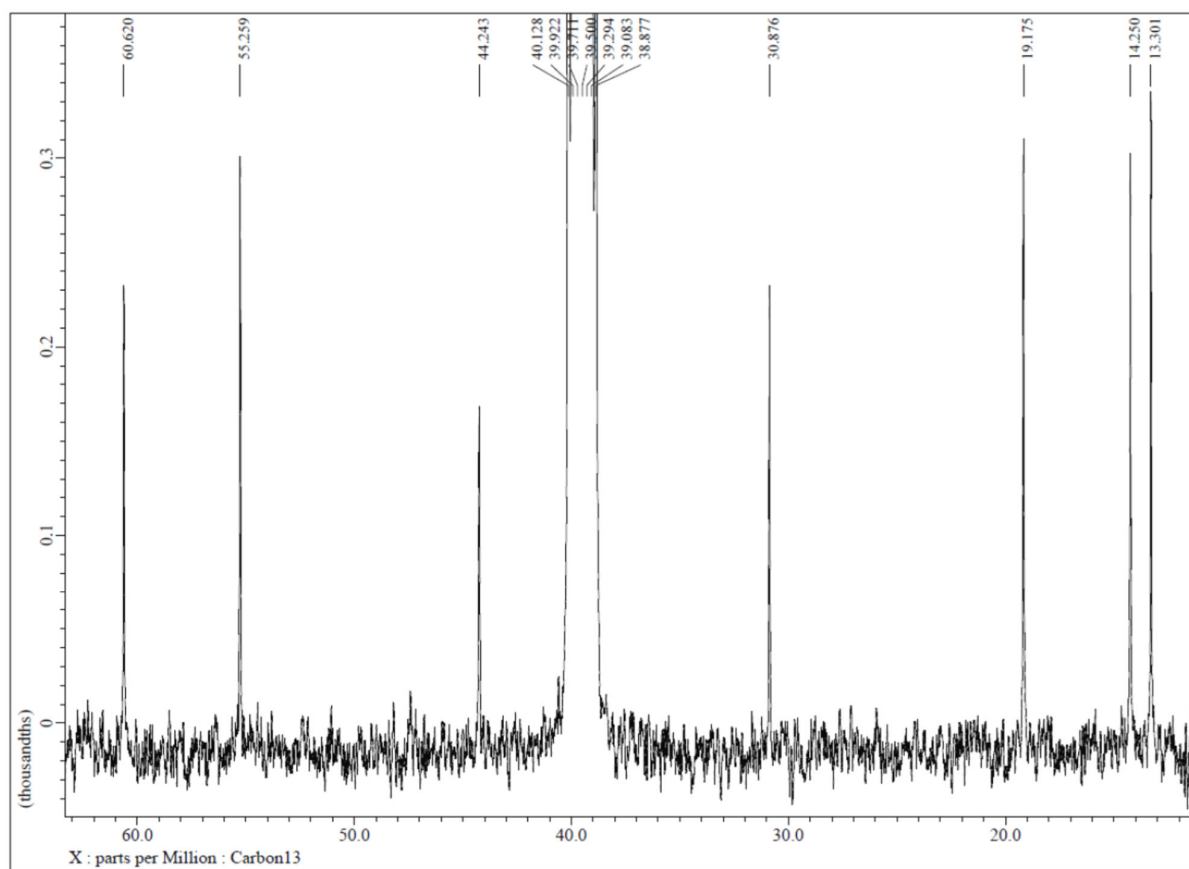


Figure S9: Expanded ^{13}C NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (**2**)

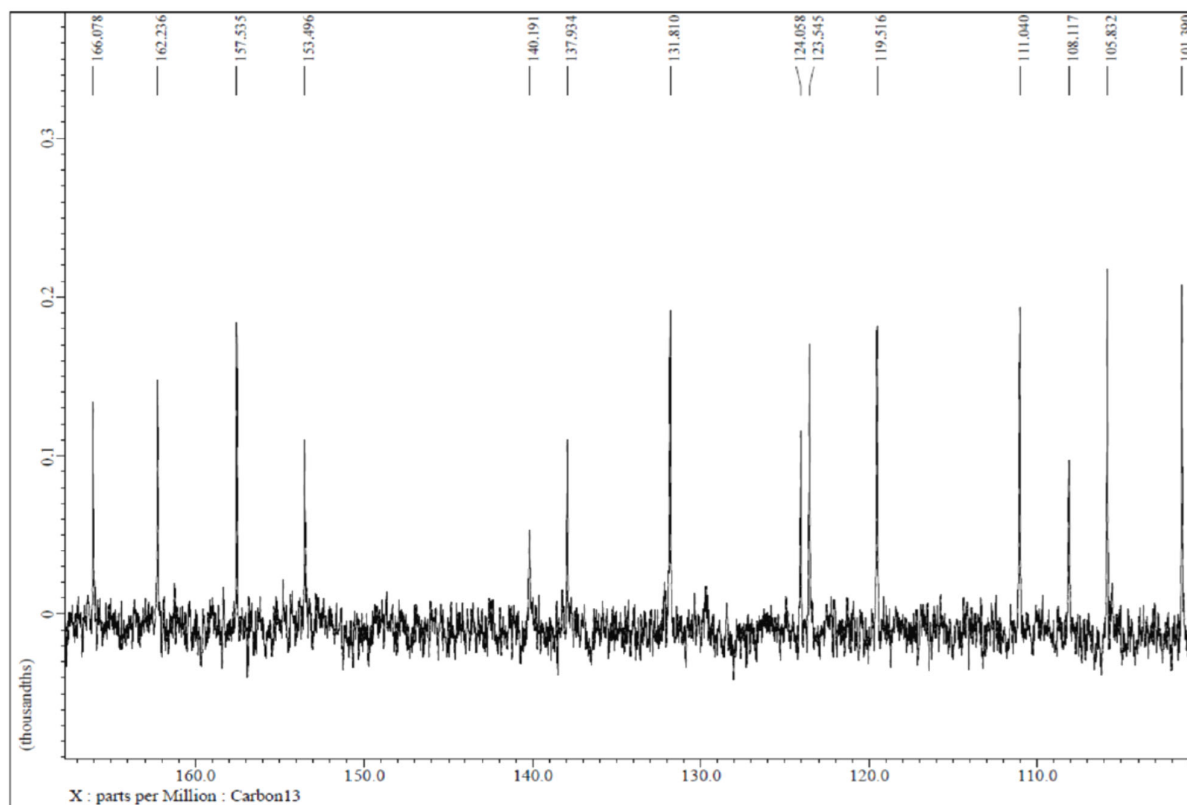


Figure S10: Expanded ^{13}C NMR spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (**2**)

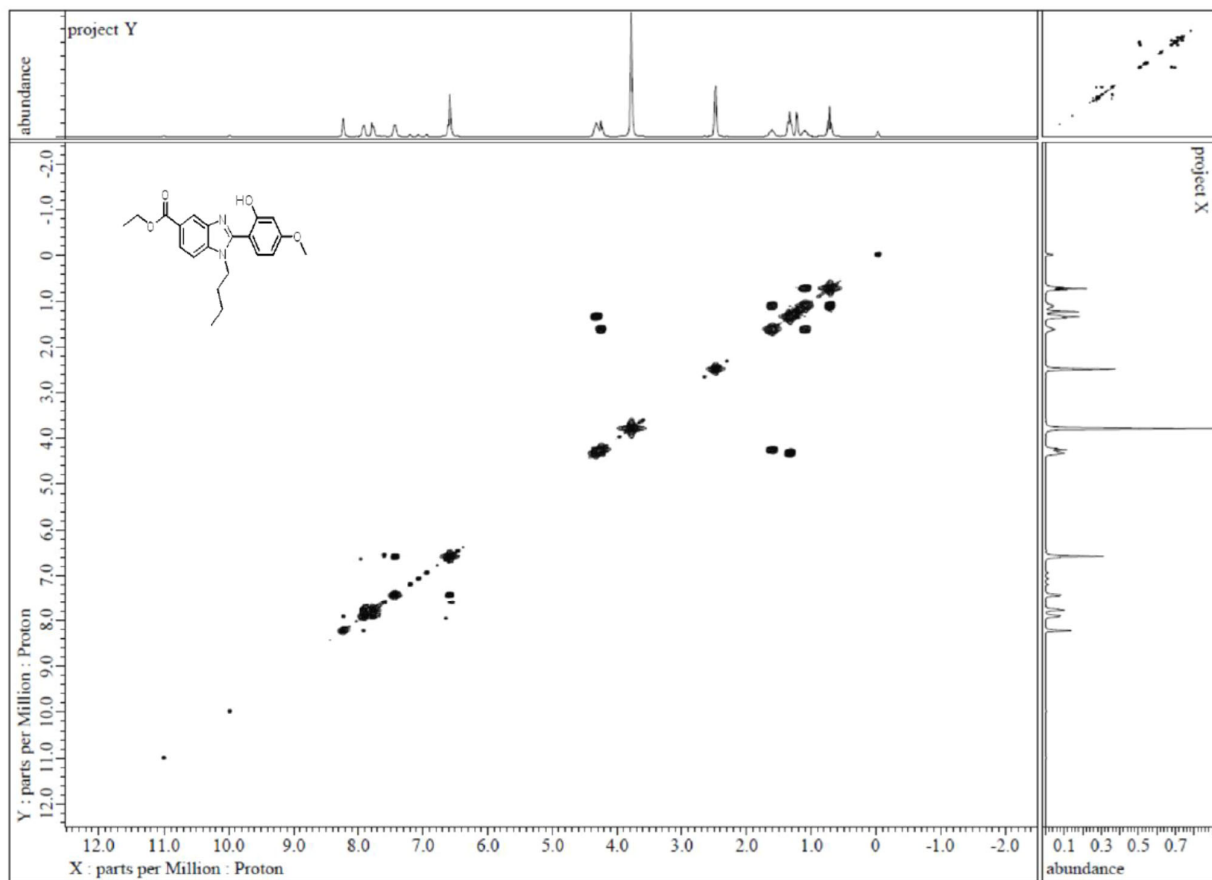


Figure S11: COSY spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)

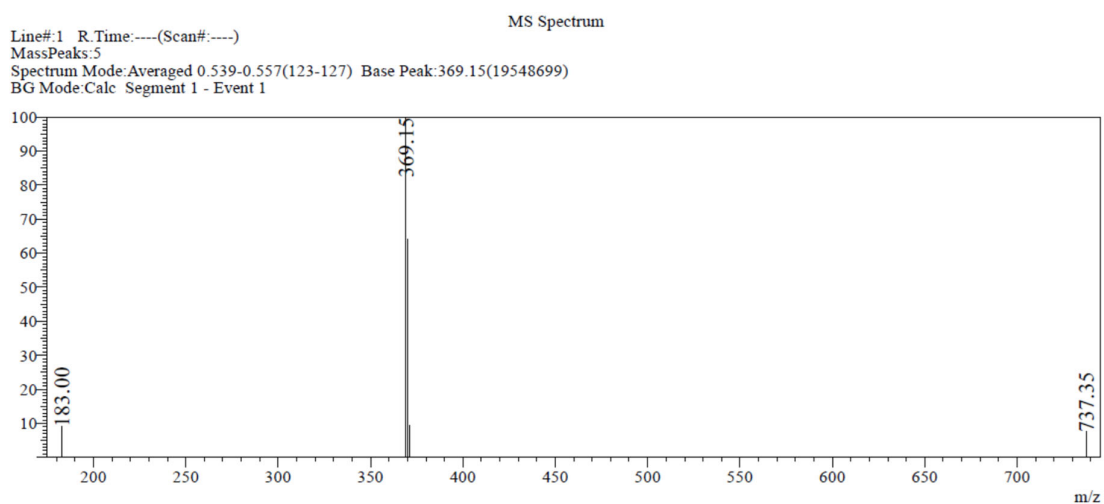


Figure S12: MS spectrum of ethyl 1-butyl-2-(2-hydroxy-4-methoxyphenyl)-1H-benzo[d]imidazole-5-carboxylate (2)