

Supporting Information

Novel Pyrenylbenzylidene-Malononitrile Derivative Mixed with Cellulose Acetate Electrospun Nanofibrous Sheets for Hydrazine Detection

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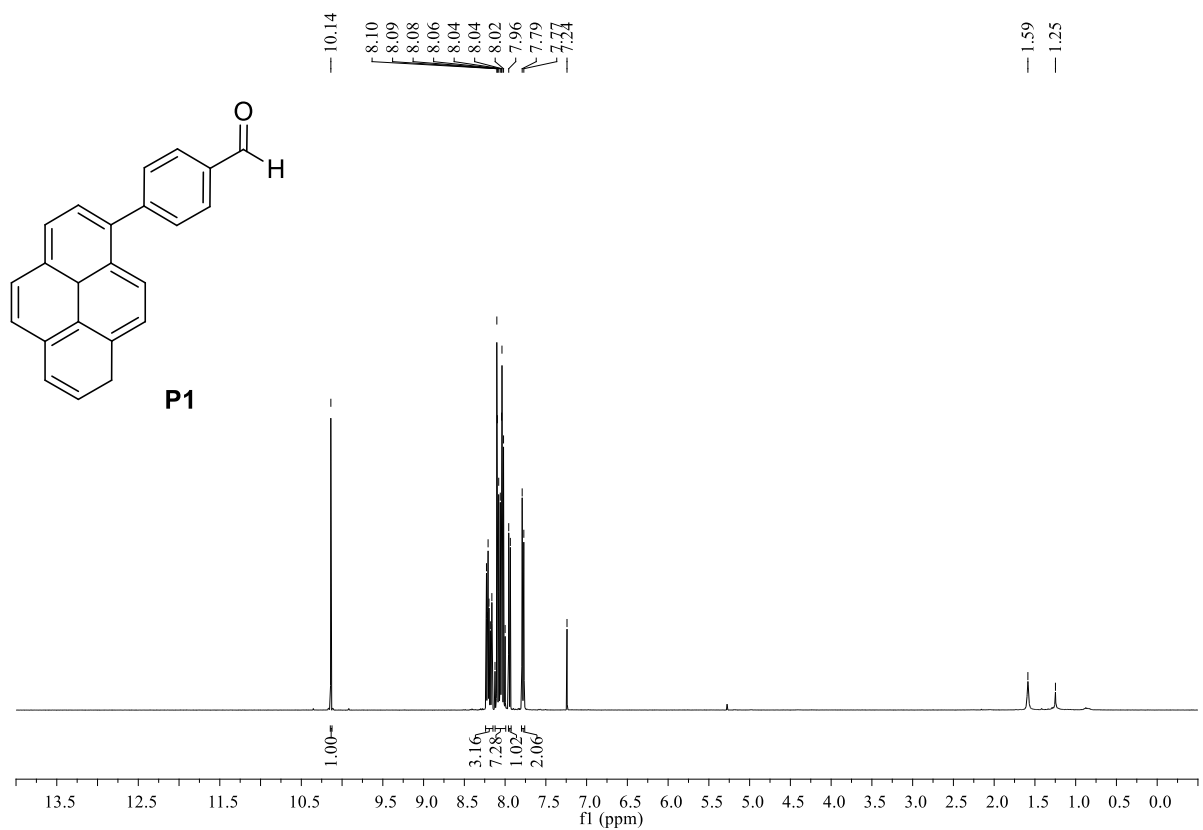


Figure S1: The $^1\text{H NMR}$ (400 MHz, CDCl_3) spectrum of compound **P1**.

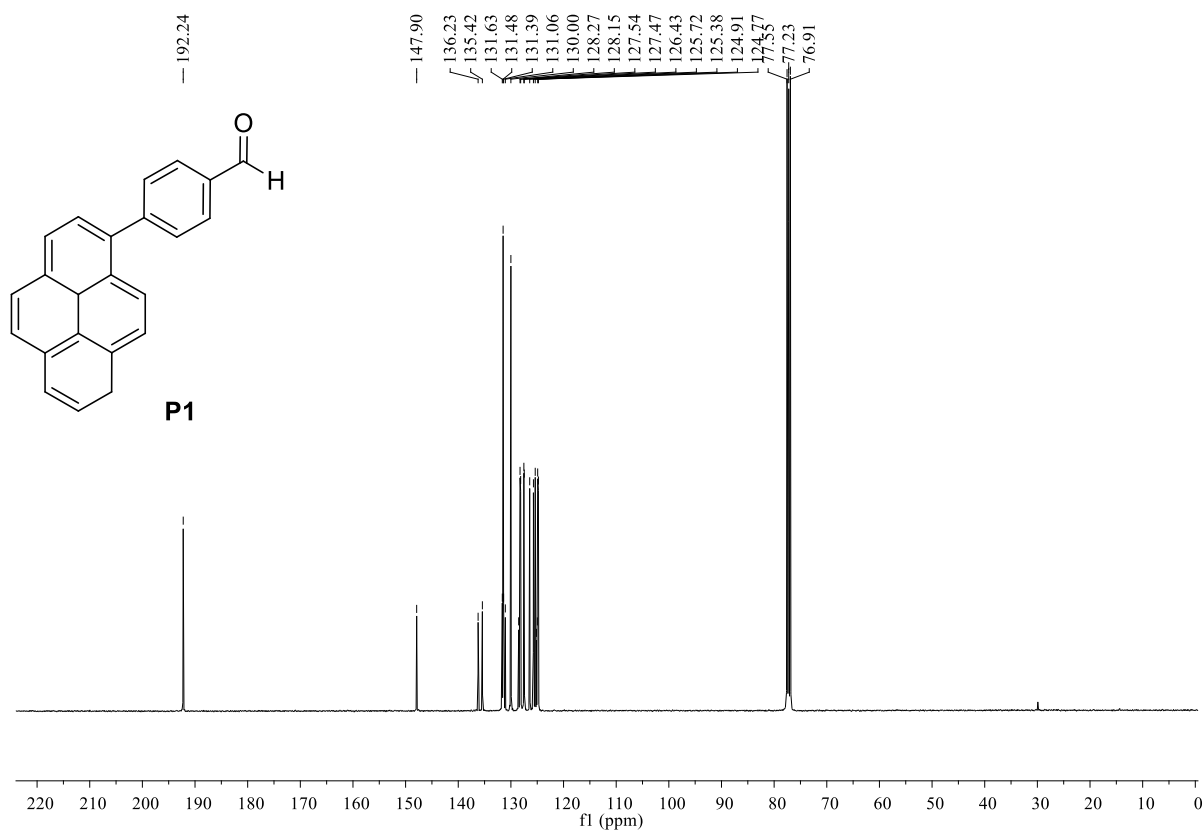


Figure S2: The $^{13}\text{C NMR}$ (100 MHz, CDCl_3) spectrum of compound **P1**.

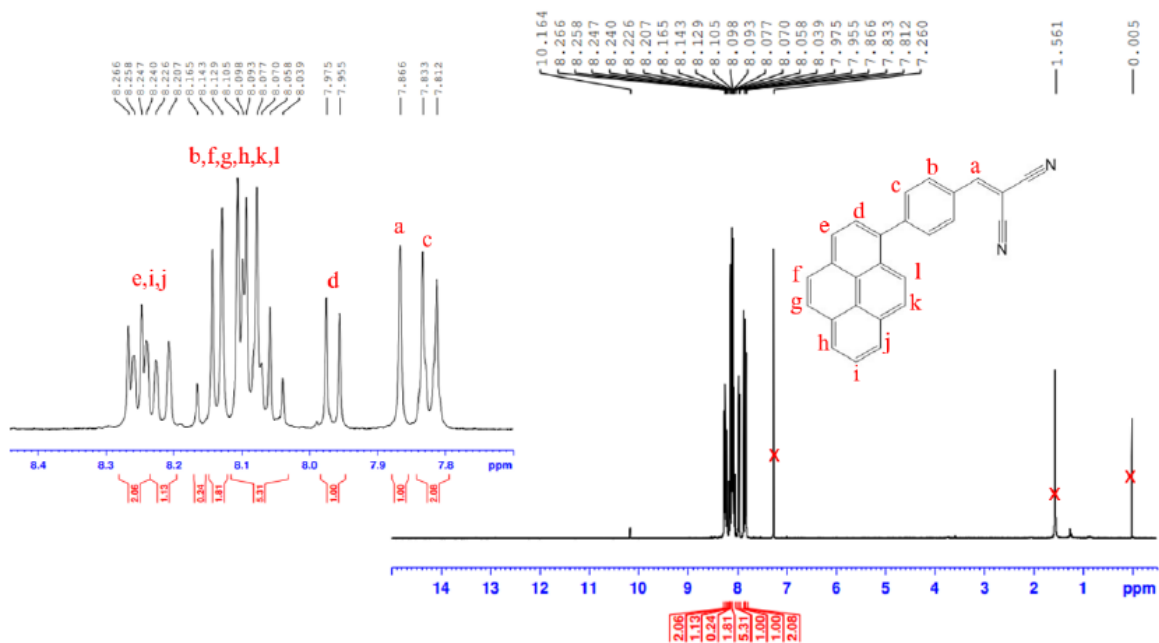


Figure S3: The ¹H NMR (400 MHz, CDCl₃) spectra of compound P2.

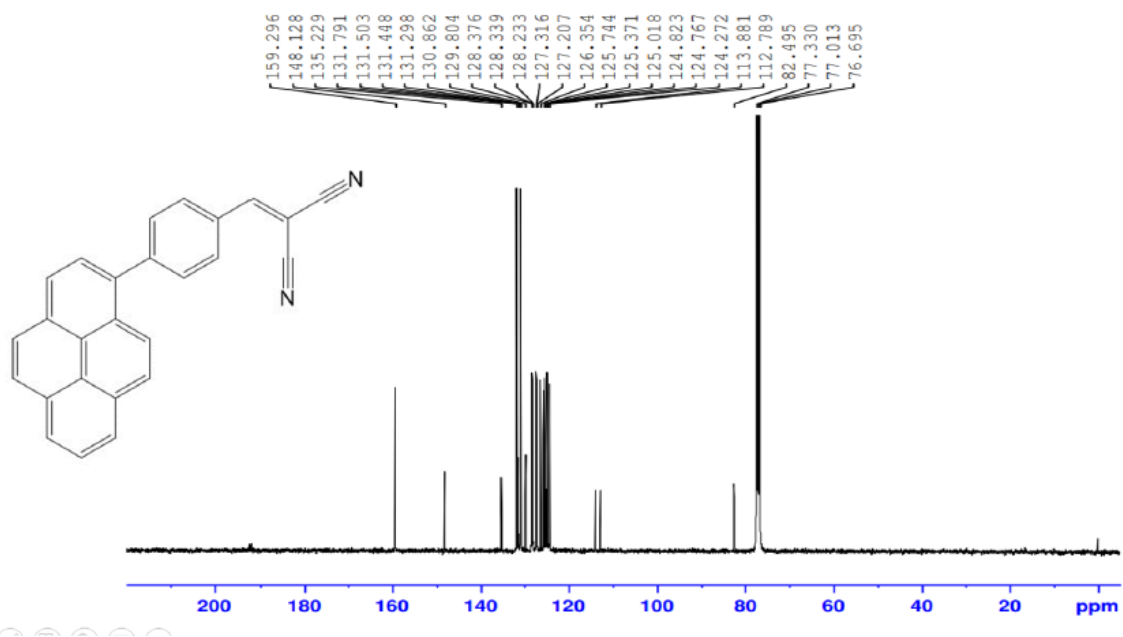


Figure S4: The ¹³C NMR (100 MHz, CDCl₃) spectrum of compound P2.

Acquisition Parameter					
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	2.0 Bar
Focus	Not active			Set Dry Heater	200 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	8.0 l/min
Scan End	2000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Waste

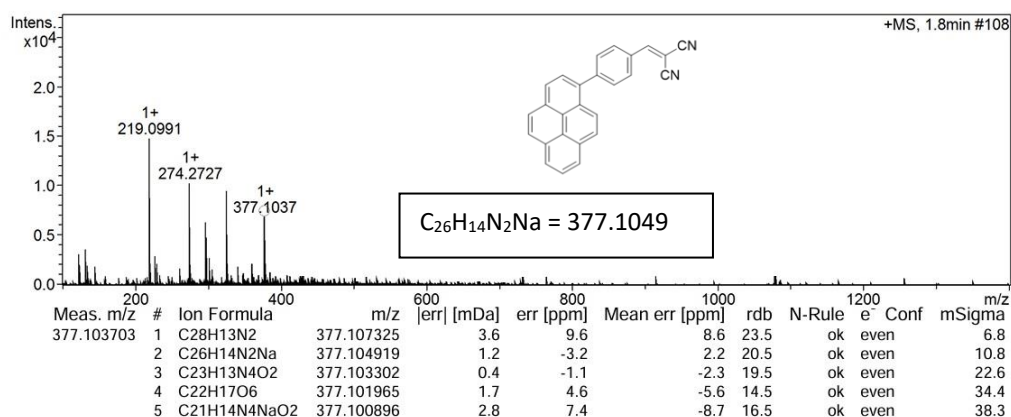


Figure S5: HRMS spectrum of compound **P2**.

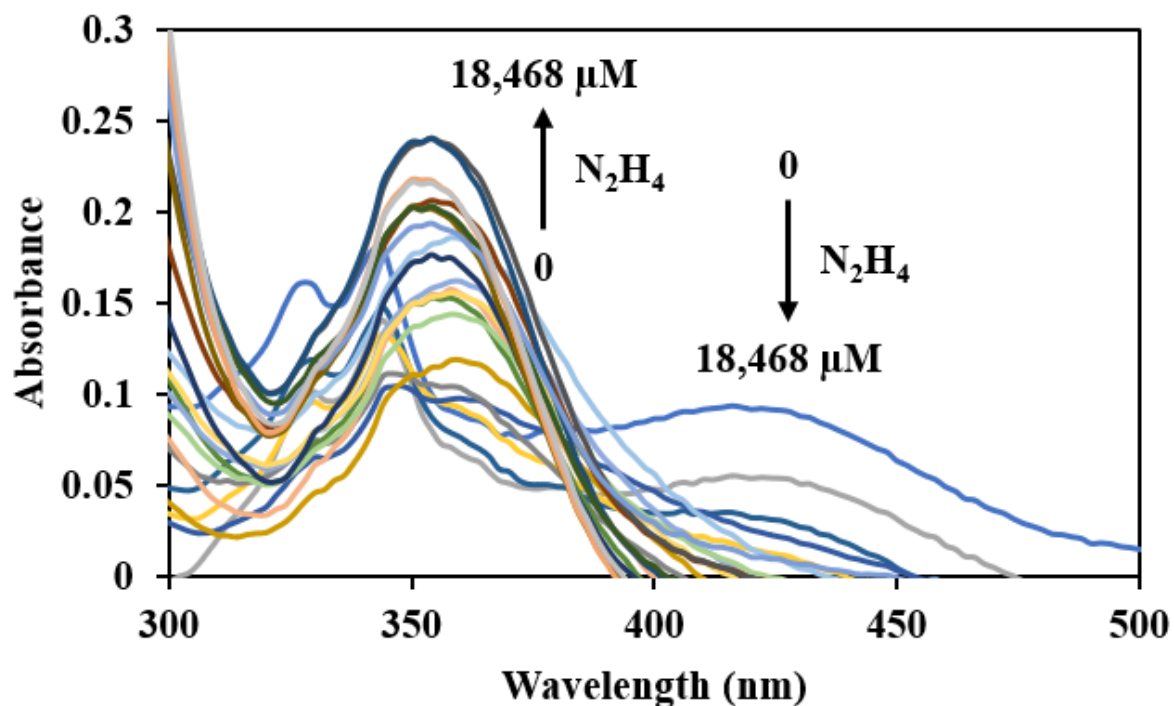


Figure S6: Absorption spectra of compound **P2** (10 μM) upon the addition of hydrazine (0-18,468 μM) in 10% THF-PBS pH 7.4.

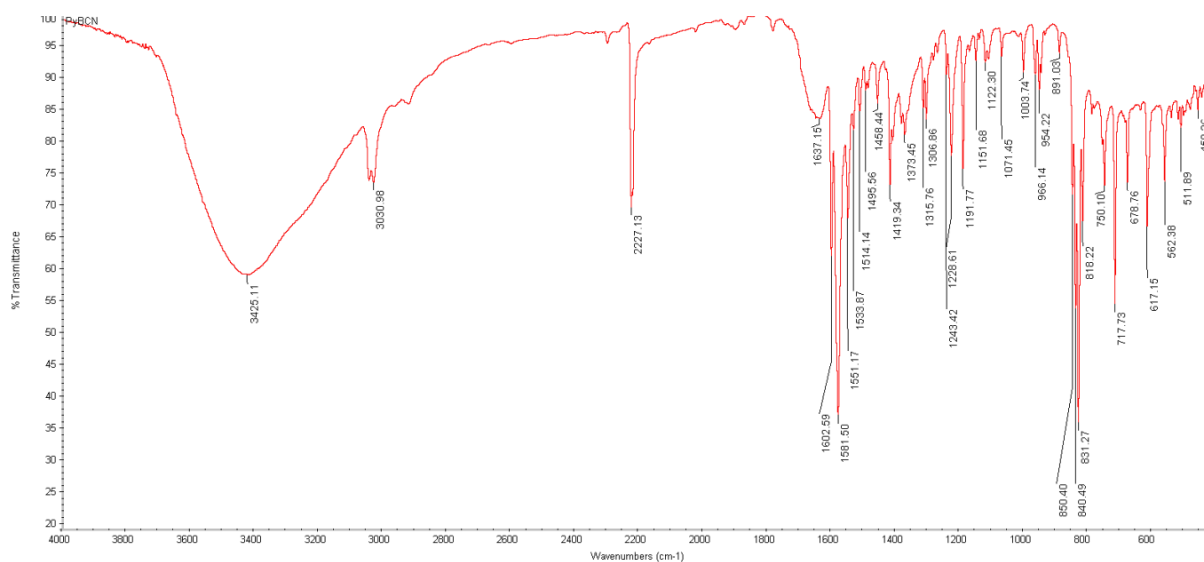


Figure S7: FT-IR spectrum of compound **P2**.

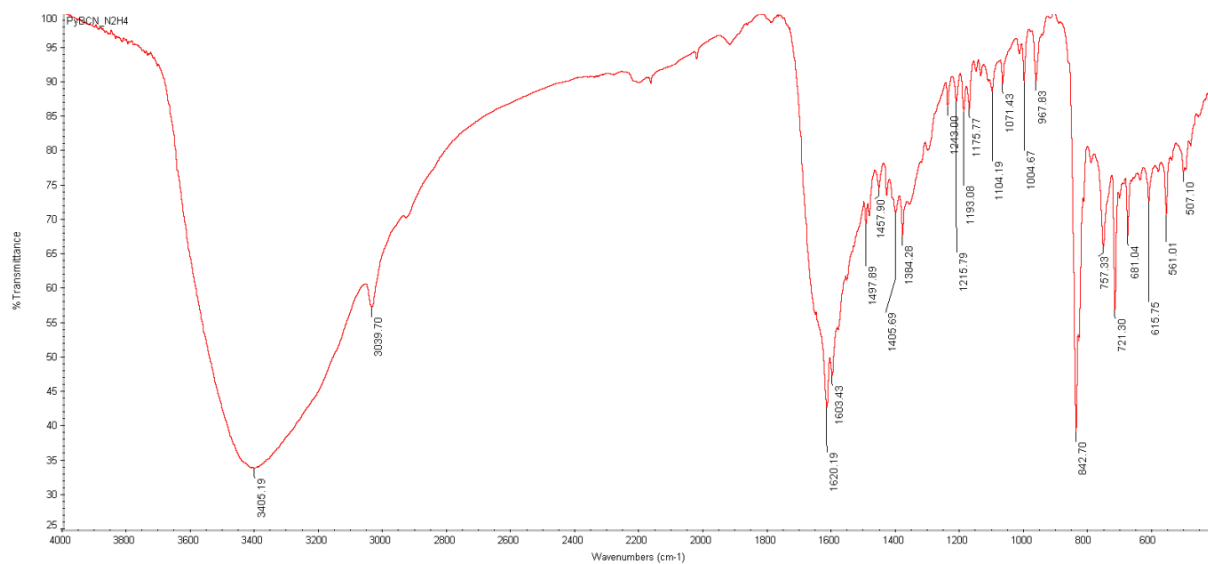


Figure S8: FT-IR spectrum of compound **P2-NH₂NH₂**.