Supporting Information

A Pyrene Derived CO_2-Responsive Polymeric Probe for the Turn-On Fluorescent Detection of Nerve Agent Mimics with Tunable Sensitivity

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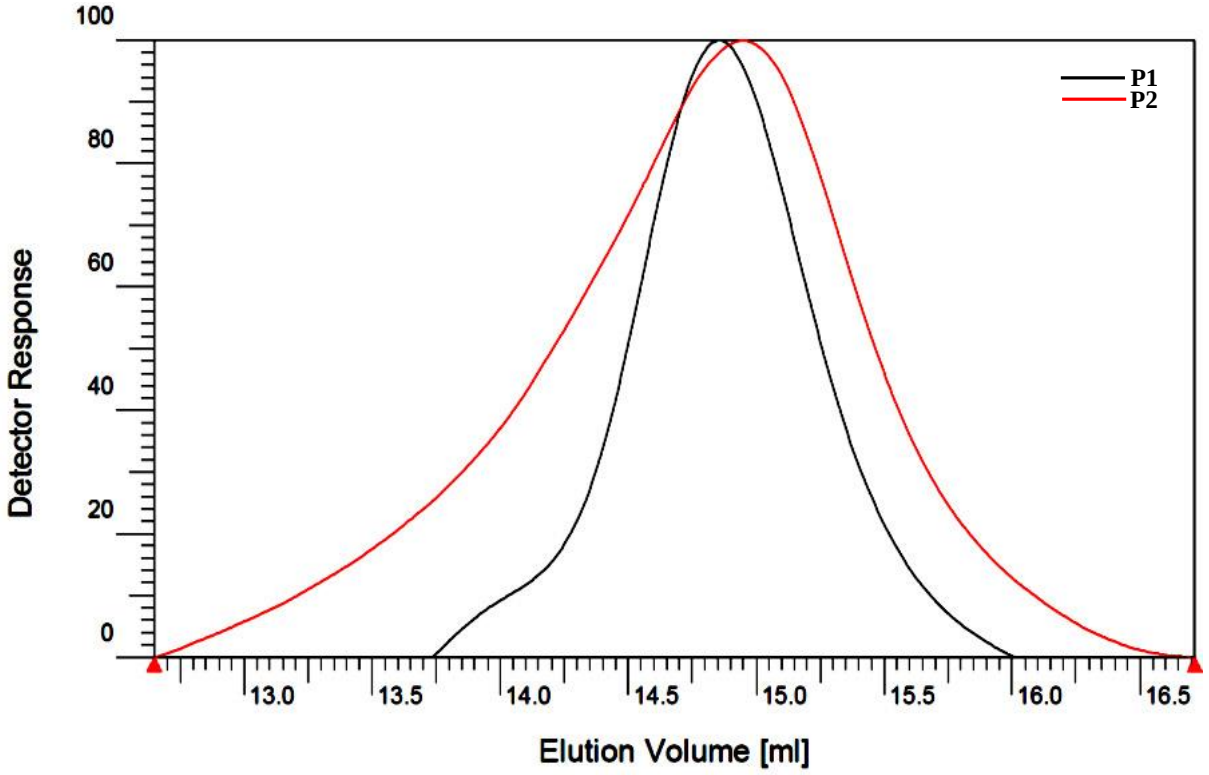


Figure S1. GPC chromatogram of P1 and P2.

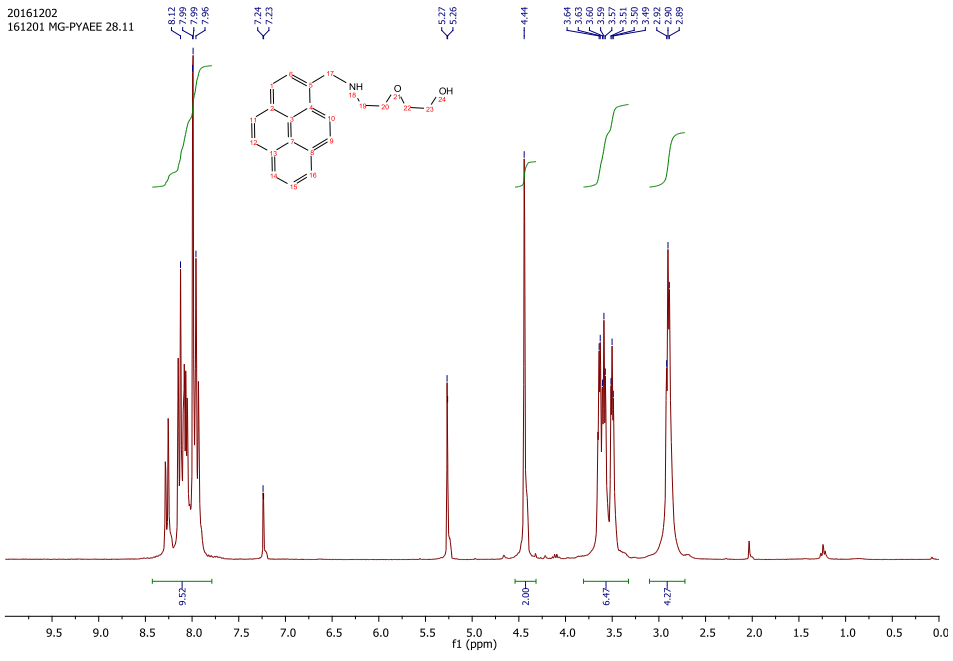


Figure S2. ^{1}H NMR spectrum of PyAEE in $CDCl_3$.

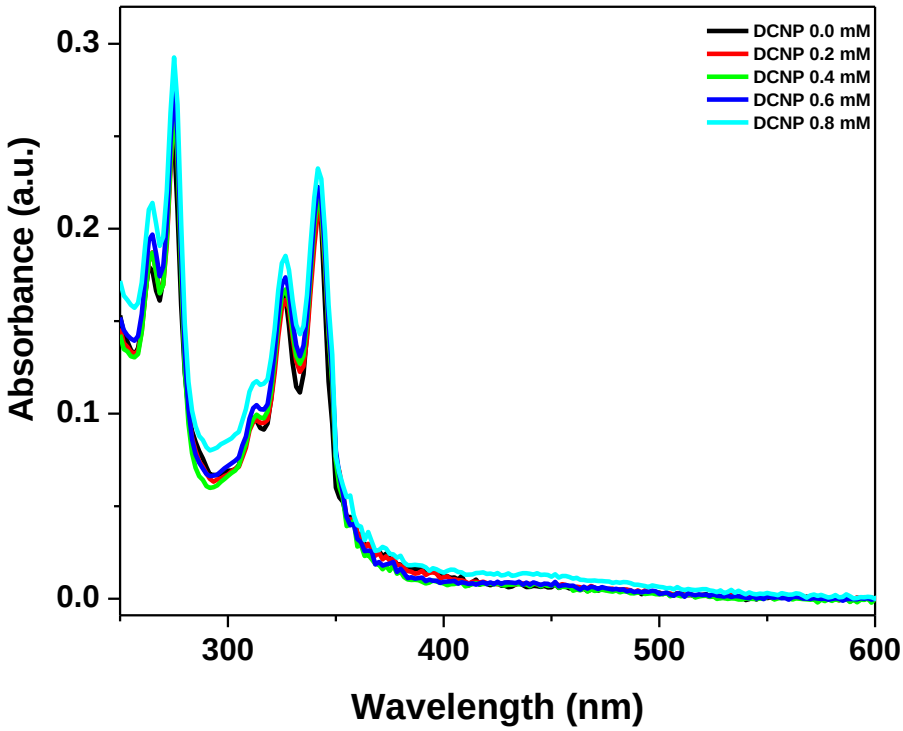


Figure S3. UV-Vis spectroscopy of P2 upon the gradual addition of DCNP in water.

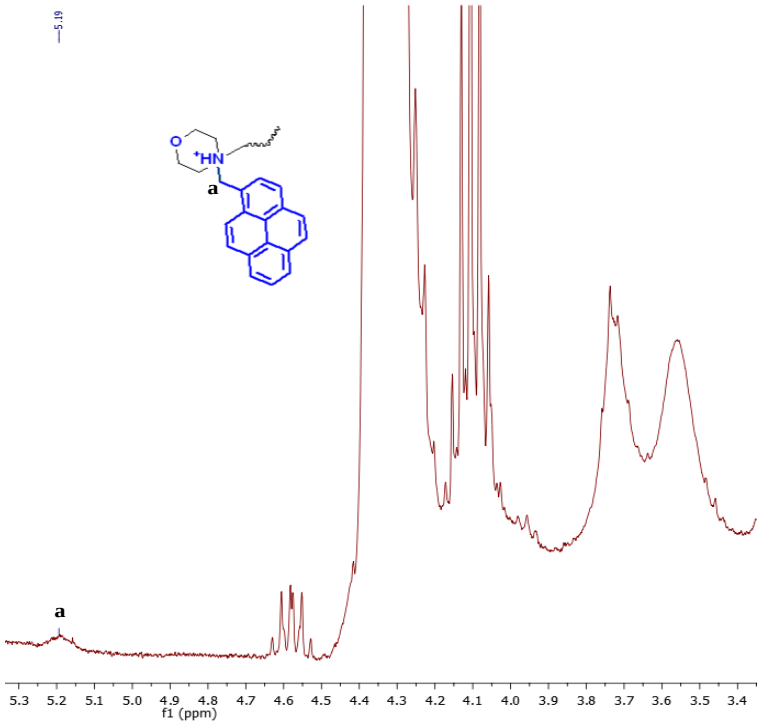


Figure S4. ^{1}H NMR of P2 after the addition of DCNP in $CDCl_3$.

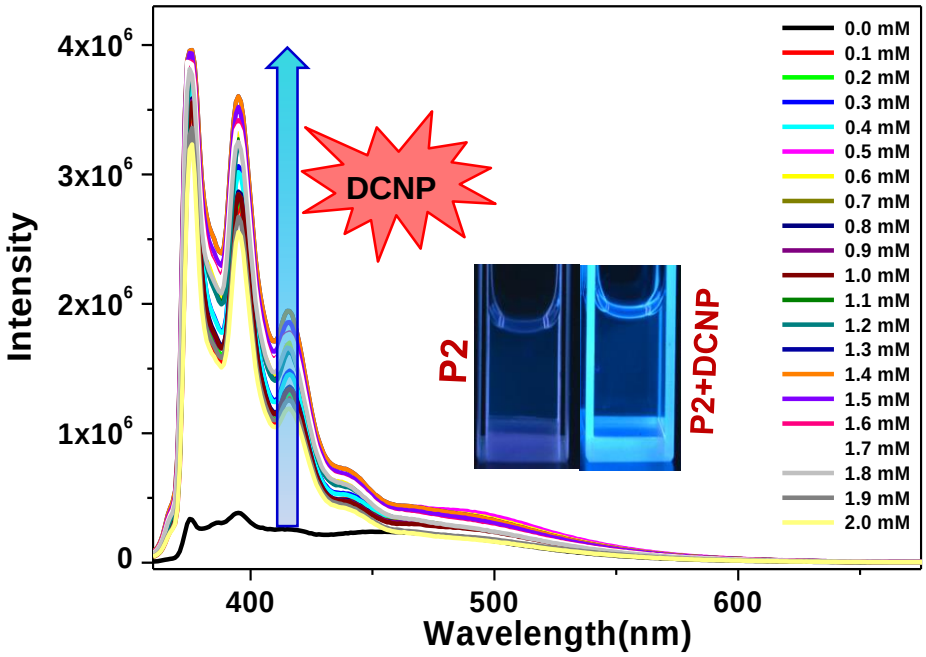


Figure S5. Fluorescence spectra of P2 upon the addition of DCNP in MeOH.

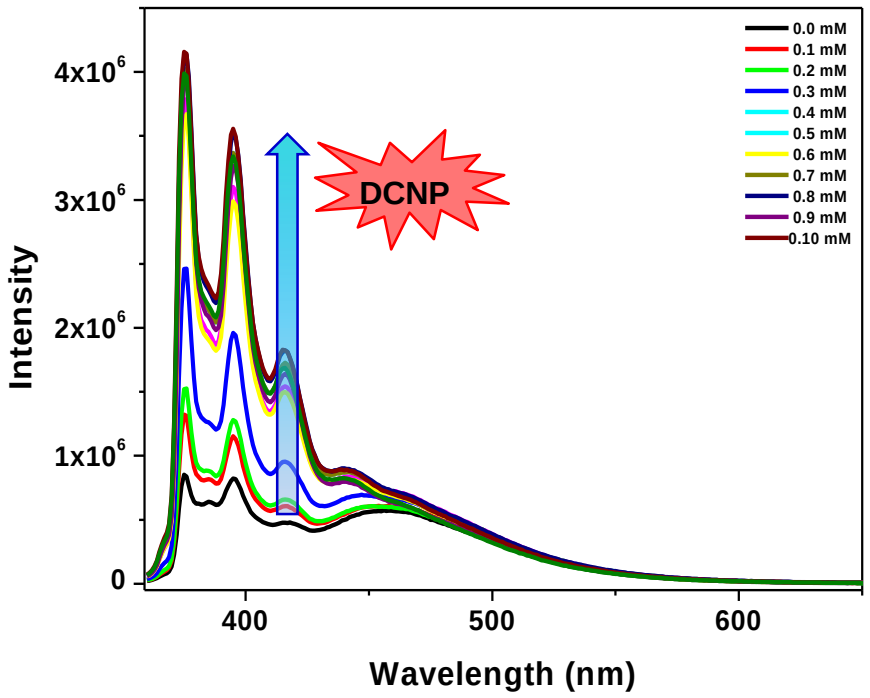


Figure S6. Fluorescence spectra of P2 upon the addition of DCNP in MeOH/ H_2O.

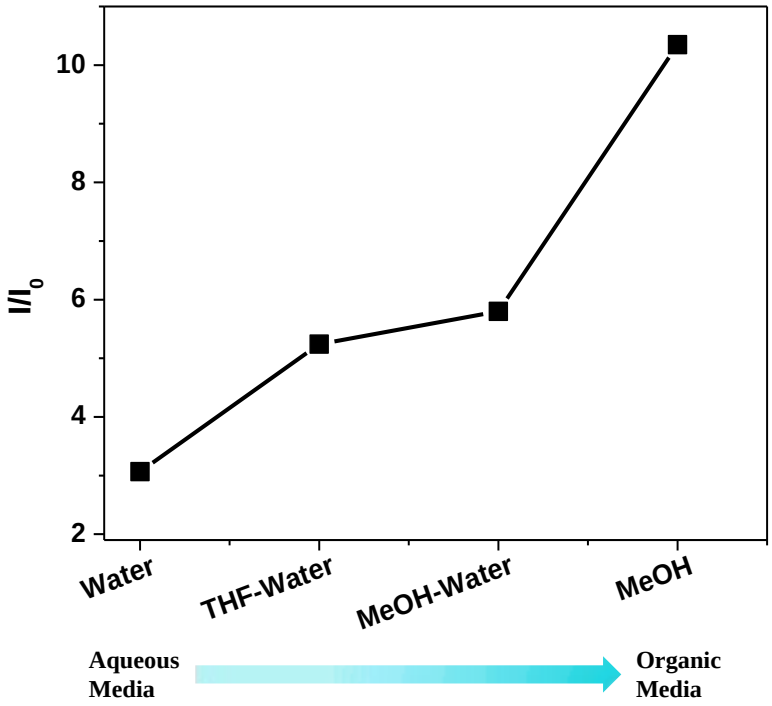


Figure S7. Solvent -dependent fluorometric detection of DCNP.

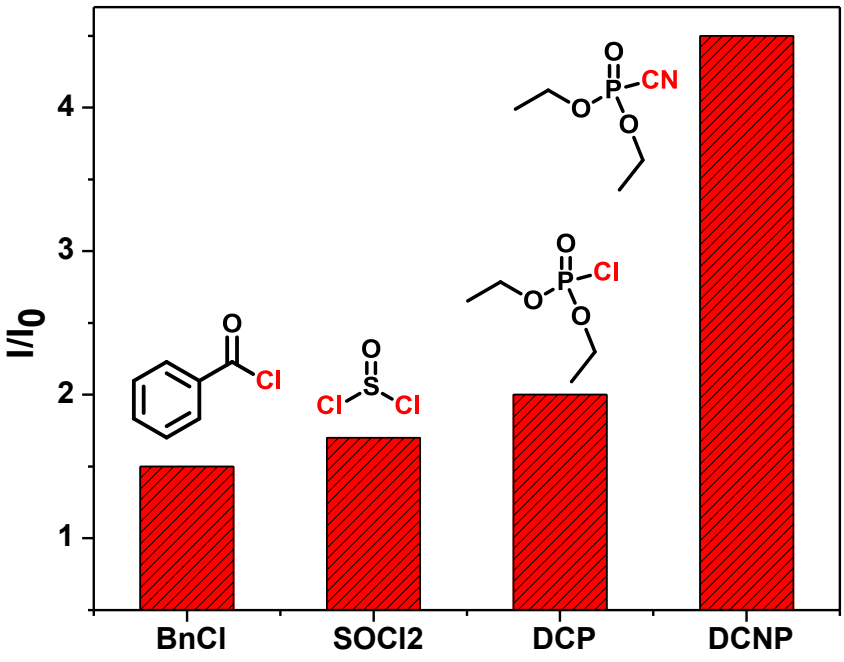


Figure S8. Selectivity of P2 towards other electrophiles in water.

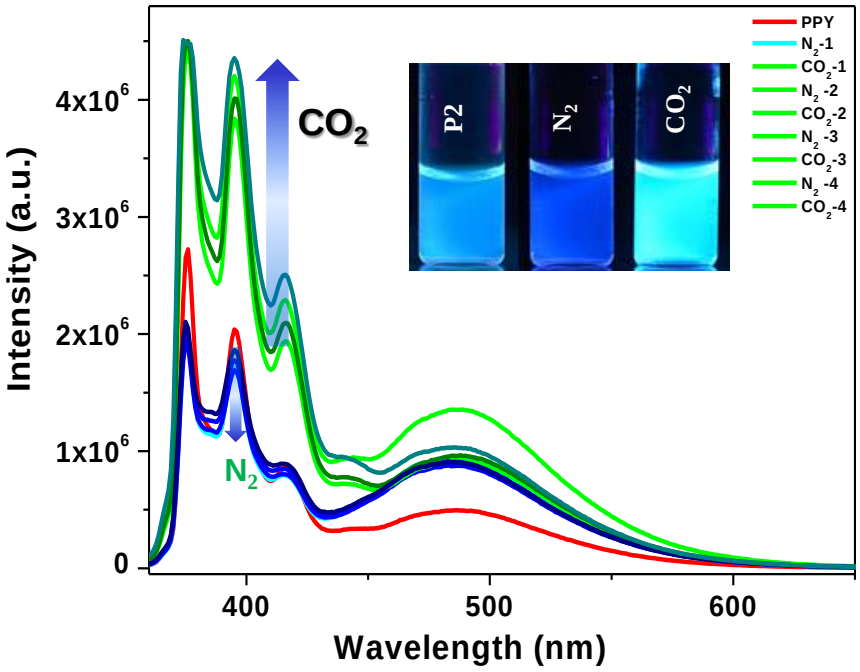


Figure S9. Reversible turn-ON/OFF signal of P2 with alternating CO_2/N_2 purging in water.

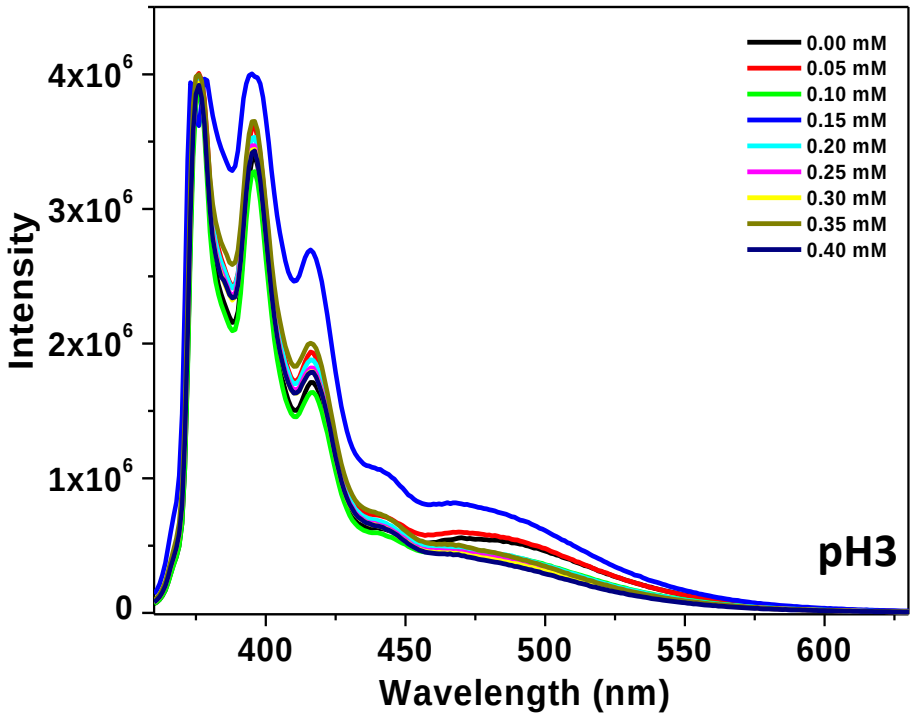


Figure S10. pH-dependent emission spectra of P2 (2.5×10^{-7} M) upon the gradual addition of DCNP in water at pH 3.