Supporting Information (SI)

Intracellular pH Sensing Using Polymeric Micelle Containing Tetraphenylethylene-Oxazolidine

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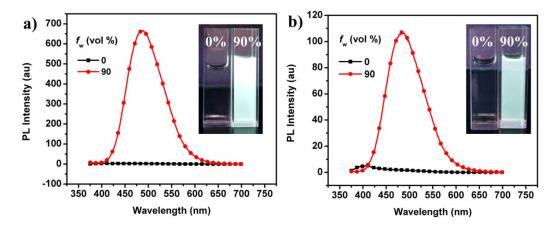


Figure S1. PL spectra of a) monomer **7** and b) copolymer **8** in THF-H₂O mixtures with 0% and 90% water fractions (f_w). Solution concentration: 1×10^{-5} M. Insets: corresponding fluorescence images under (365 nm) UV light.

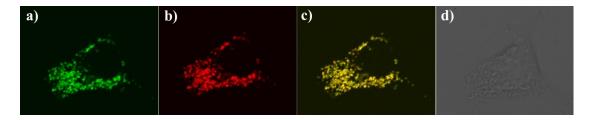
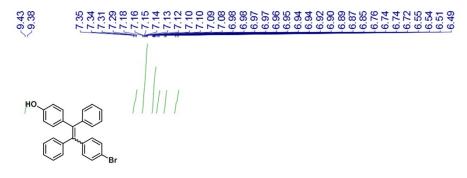


Figure S2. The enlarged confocal images of a single HepG2 cell stained with a) 0.1 μ M LysoTracker Green DND-26 (LTG) and b) 50 μ g/mL polymeric micelles. c) panels a) and b) merged, d) bright-field. Scale bar: 20 mm.

¹HNMR, ¹³CNMR, MS spectra and GPC data of the compounds



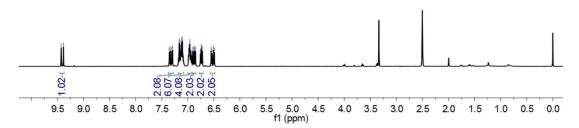


Figure S3. ¹H NMR spectrum of compound 1 in CDCl₃.

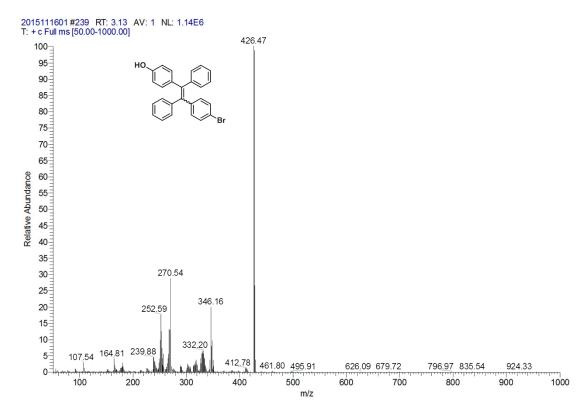


Figure S4. Mass spectrum of compound 1.

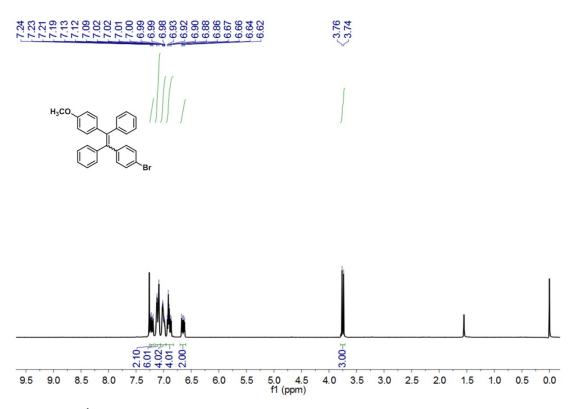


Figure S5. ¹H NMR spectrum of compound 2 in CDCl₃.

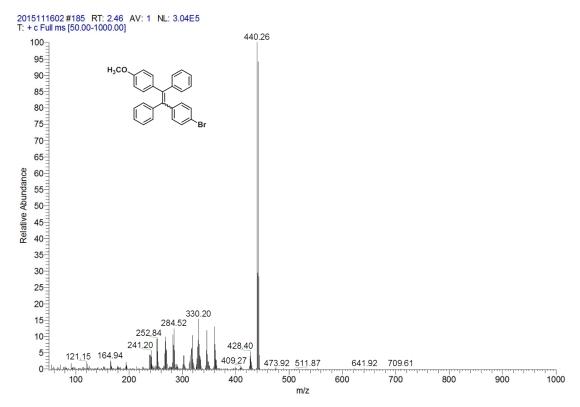


Figure S6. Mass spectrum of compound 2.

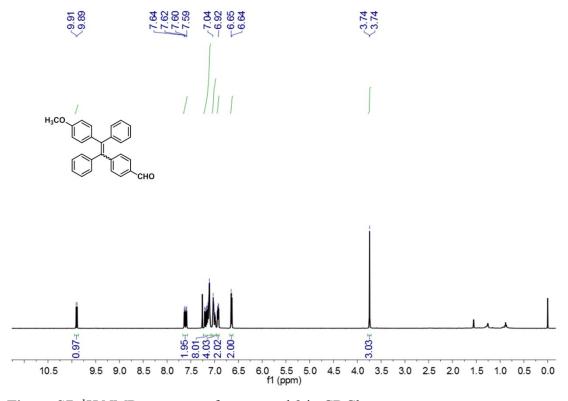


Figure S7. ¹H NMR spectrum of compound 3 in CDCl₃.

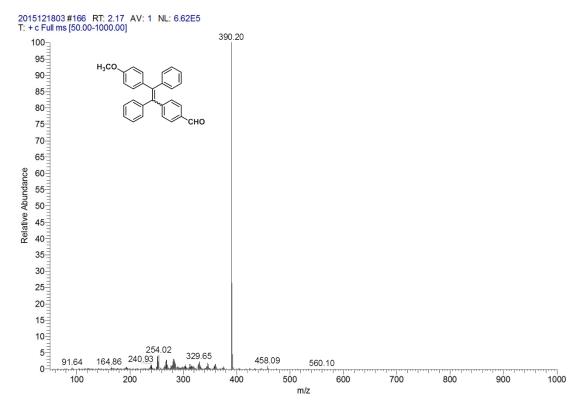


Figure S8. Mass spectrum of compound 3.

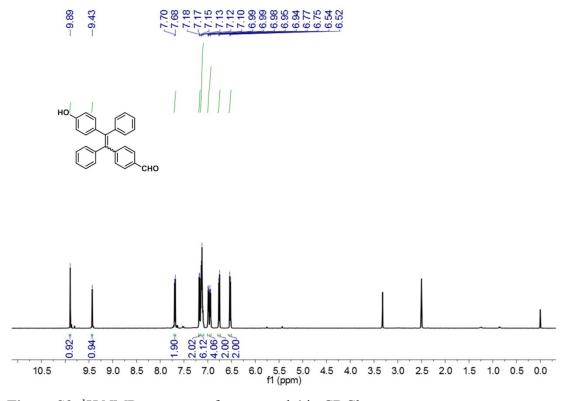


Figure S9. ¹H NMR spectrum of compound 4 in CDCl₃.

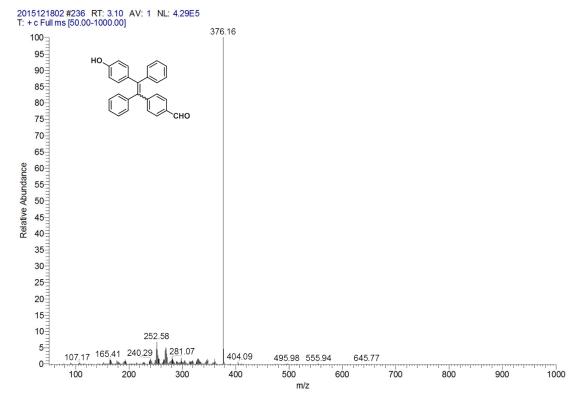


Figure S10. Mass spectrum of compound 4.

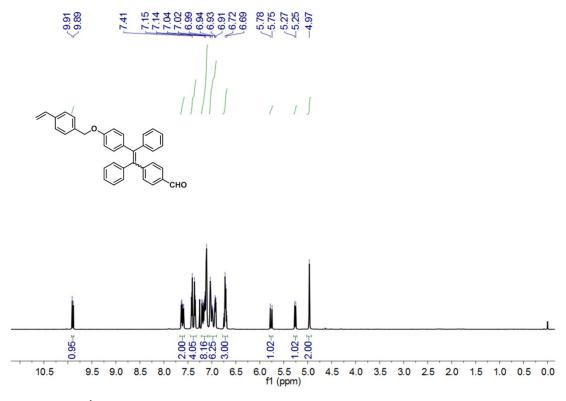


Figure S11. ¹H NMR spectrum of compound 5 in CDCl₃.

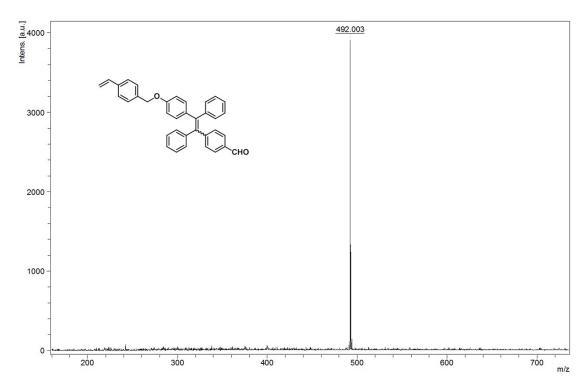


Figure S12. Mass spectrum of compound 5.

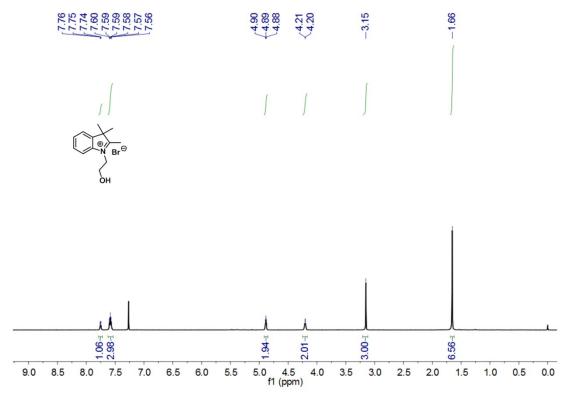


Figure S13. ¹H NMR spectrum of compound 6 in CDCl₃.

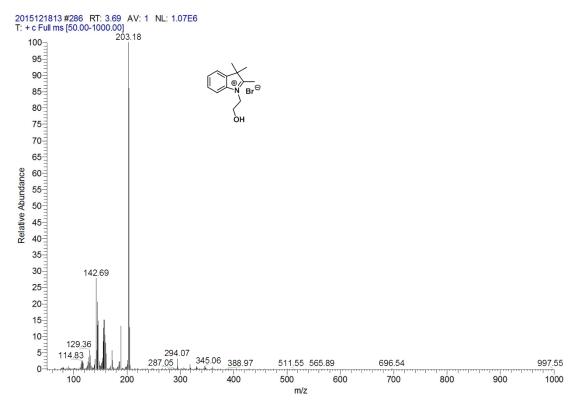


Figure S14. Mass spectrum of compound 6.

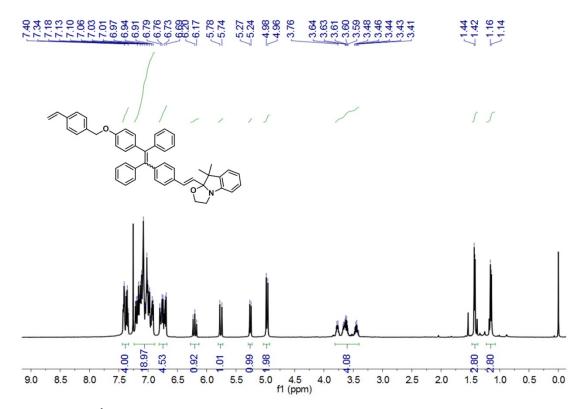


Figure S15. ¹H NMR spectrum of compound 7 in CDCl₃.

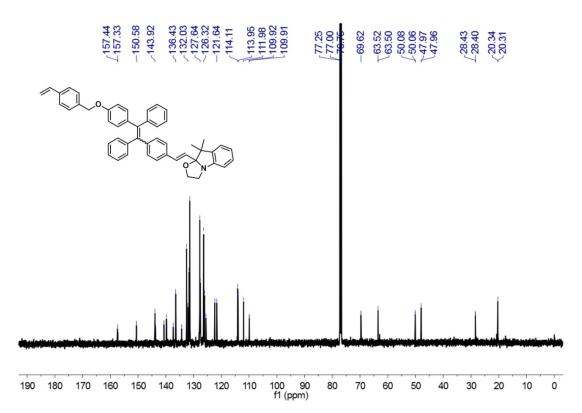


Figure S16. ¹³C NMR spectrum of compound 7 in CDCl₃.

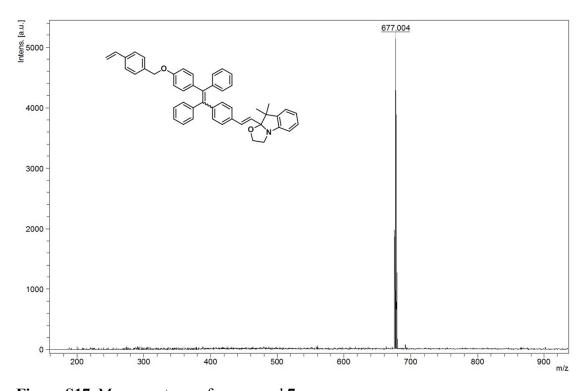


Figure S17. Mass spectrum of compound 7.

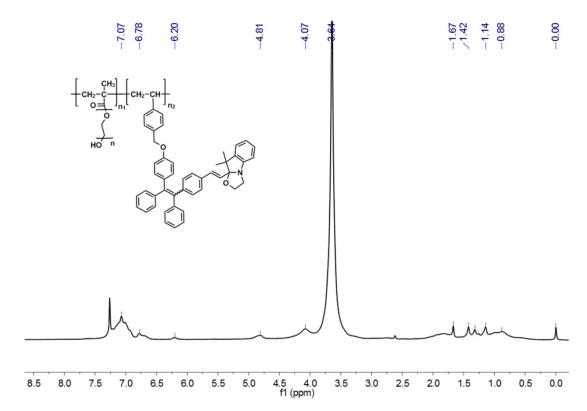


Figure S18. ¹H NMR spectrum of copolymer 8 in CDCl₃.

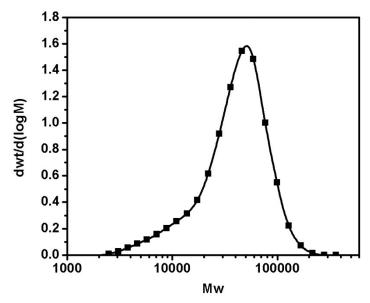


Figure S19. GPC chart of copolymer 8 (eluent: DMF).