

Supporting Information

Novel self-assembled amphiphilic mPEGylated starch-deoxycholic acid polymeric micelles with pH-responsive for anticancer drug delivery

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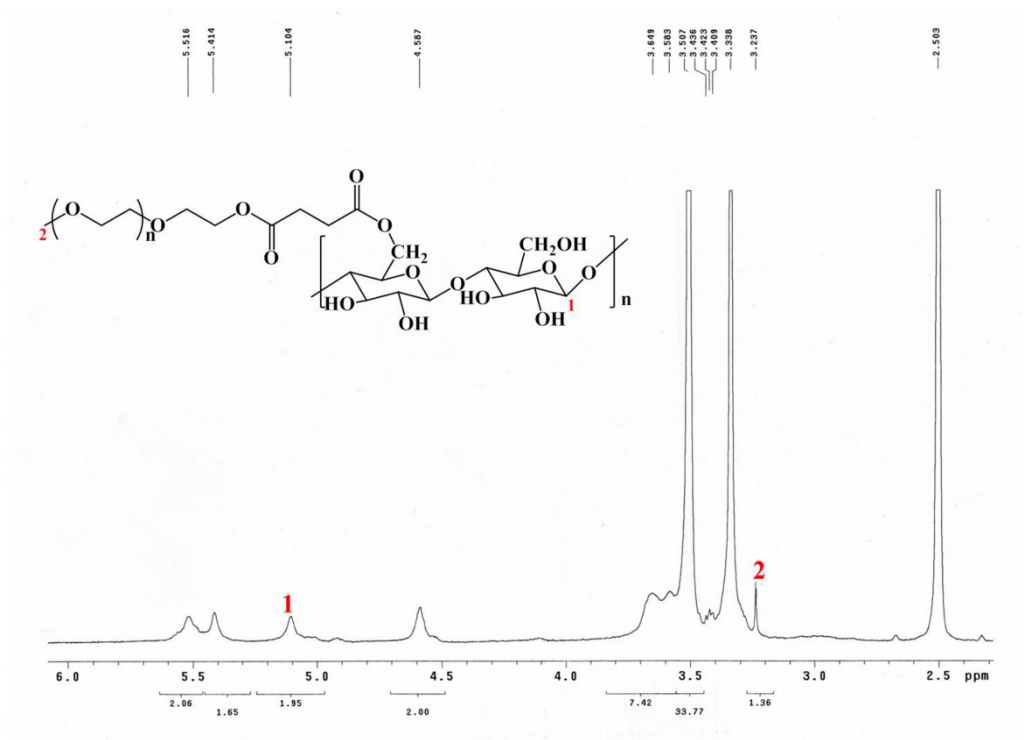


Fig. S1 ^1H NMR spectrum of mPEG-St polymer in DMSO-d_6

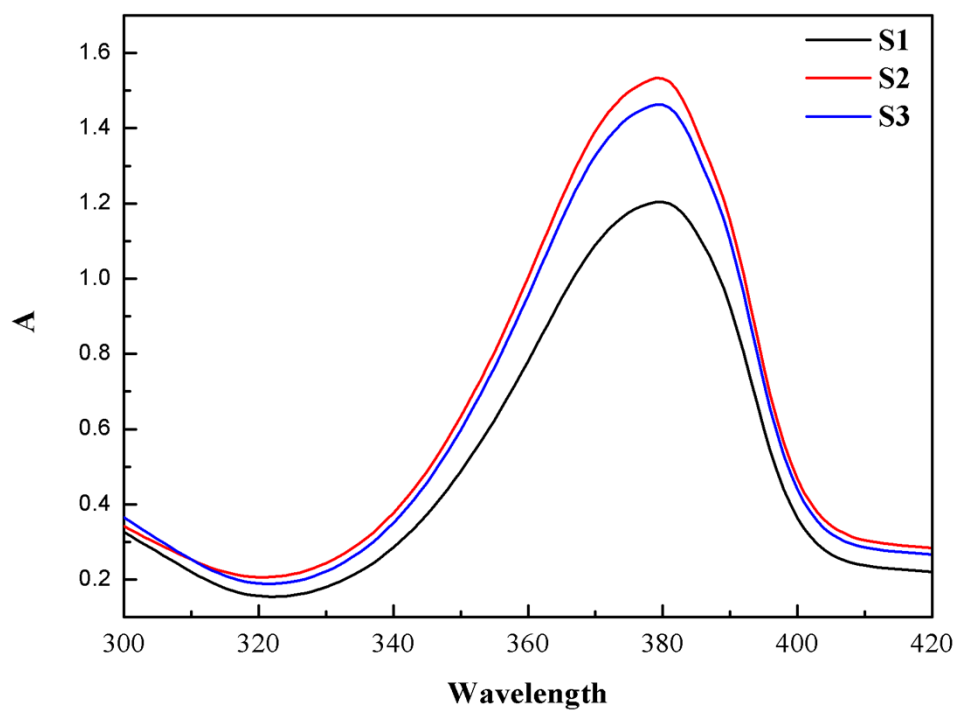


Fig. S2 The UV scanning spectra of mPEG-St-DCA polymer with different feed ratio of DCA to glucose units of mPEG-St: (S1) 40%, (S2) 50%, and (60%)

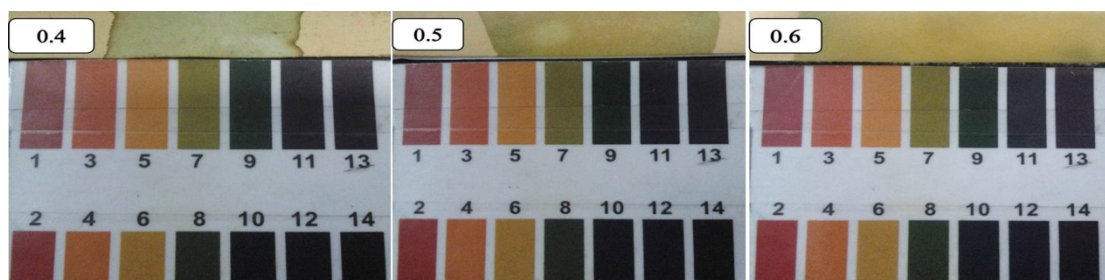


Fig. S3 The pH values of the three reactive systems monitored using the pH test papers. 0.4, 0.5 and 0.6 are the feed ratio of DCA to glucose units of mPEG-St

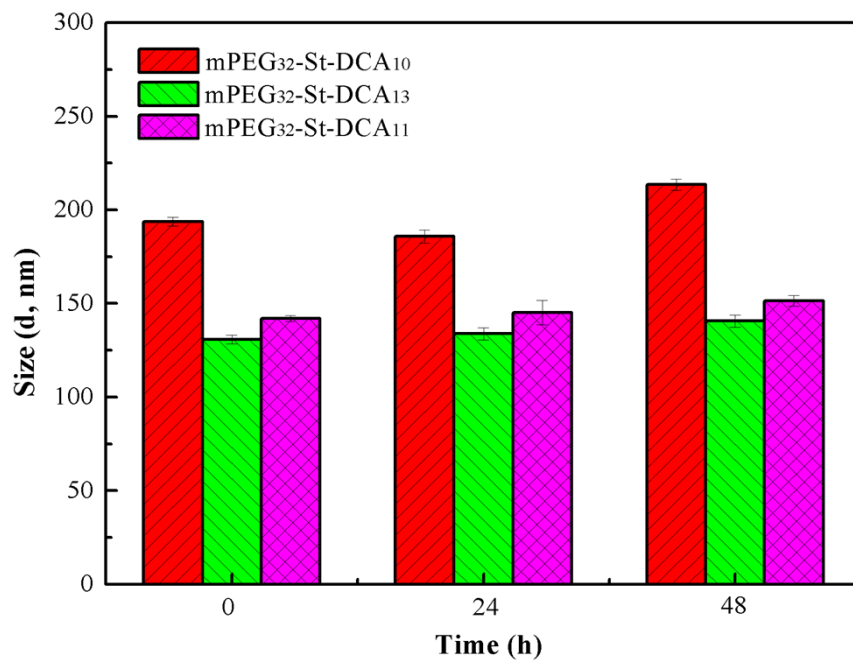


Fig. S4 Stability of mPEG-St-DCA micelles in PBS solution (pH 7.4) at 25 °C for 48 h by DLS.



Fig. S5 A photograph of mPEG₃₂-St-DCA₁₃ micelles incubated with the PBS solution of pH 7.4 (left vial) and pH 5.5 (right vial) for 2 h at 37 °C.

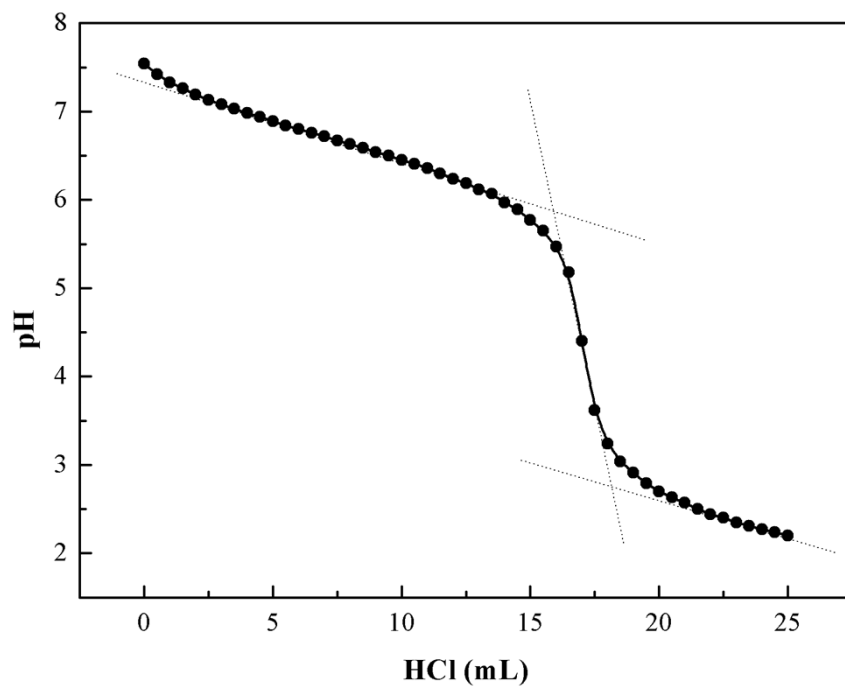


Fig. S6 The pH as a function of the volume of HCl (0.1 M) added in 10 mL mPEG₃₂-St-DCA₁₃ micelles solution (0.5 mg/mL)

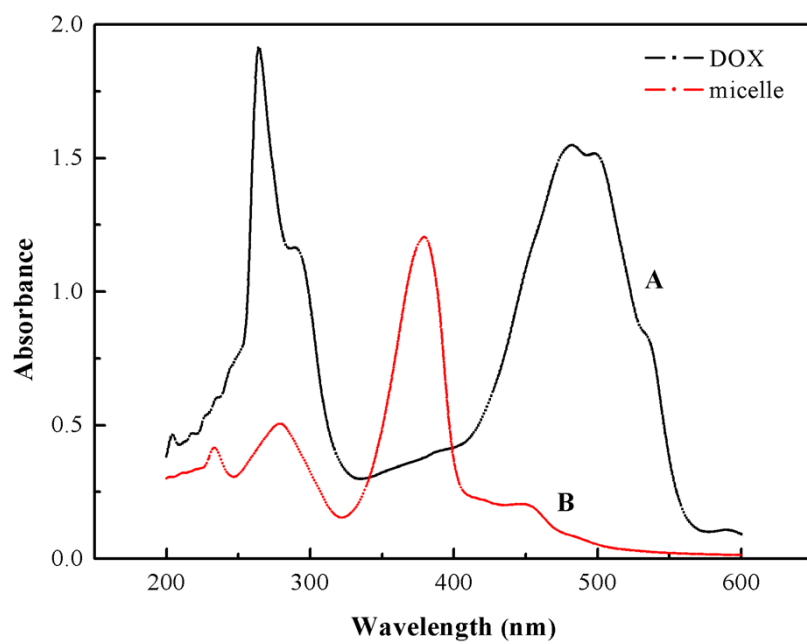


Fig. S7 The UV scanning spectra of (A) DOX·HCl and (B) mPEG-St-DCA micelles in DMSO