

Electronic Supplementary Information for:

**Light- and pH-dually responsive dendrimer-star copolymer
containing spiropyran groups: synthesis, self-assembly and
controlled drug release**

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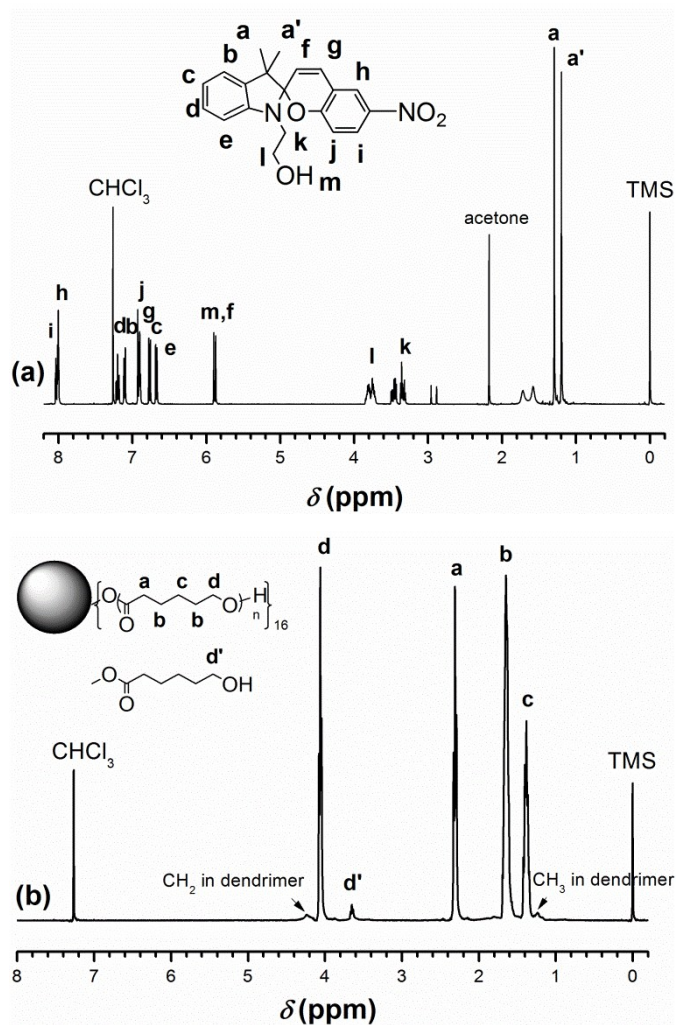
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Table S1 Summary of the synthesized polymers

Sample	$M_{n,NMR}^a$	$M_{n,GPC}^b$	M_w/M_n^b
DPCL-OH	23660	19150	1.26
DPCL- <i>b</i> -P <i>t</i> BMA	117040	112600	1.29
DPCL- <i>b</i> -P(MAA- <i>co</i> -SPMA)	188700	174310	1.31

^a Determined by 1H NMR spectroscopy of the block copolymers.

^b Determined by GPC analysis with polystyrene standards. THF was used as eluent.



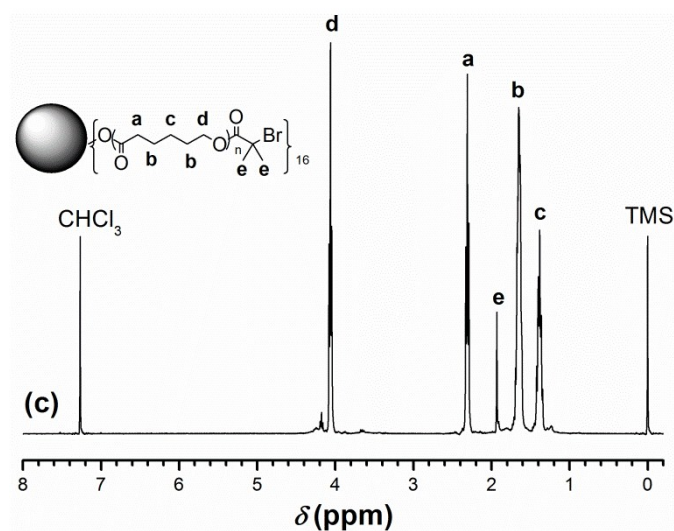


Fig. S1 $^1\text{H NMR}$ spectra of (a) SP-OH, (b) DPCL-OH and (c) DPCL-Br.

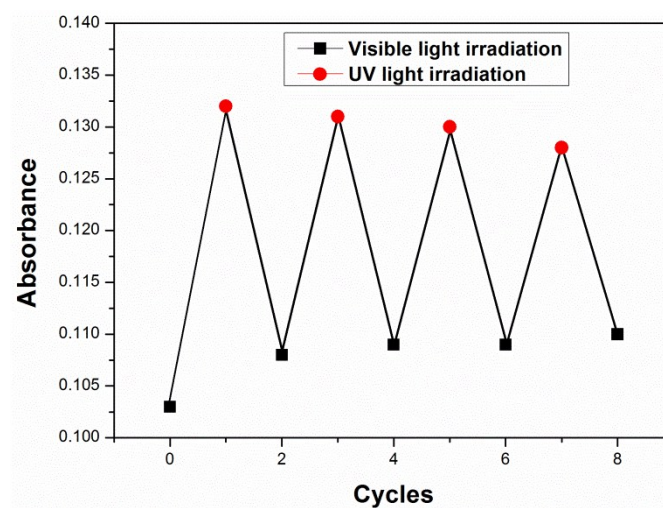


Fig. S2 Alternately irradiation with UV lights (60 s) and visible light (60 min) for several cycles.

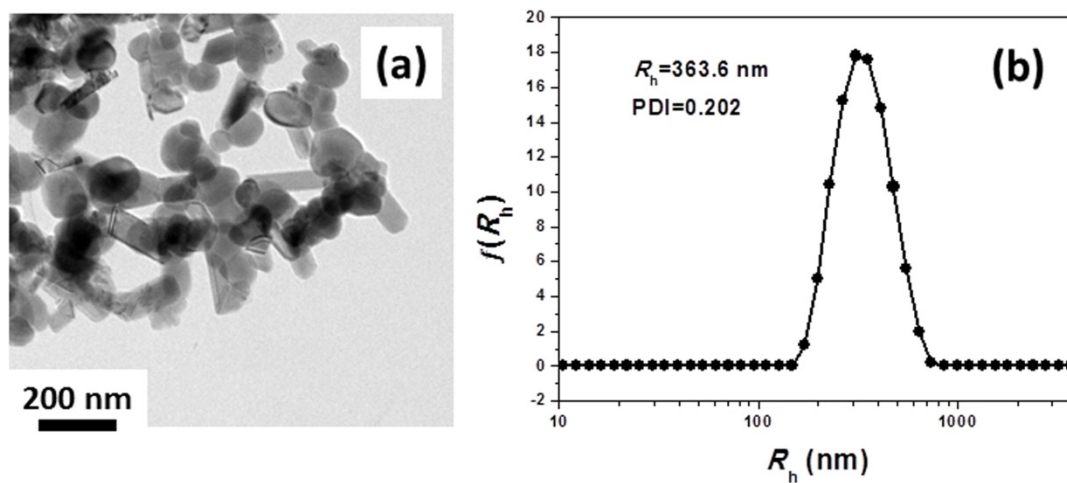


Fig. S3 (a) TEM images of DOX-loaded copolymer micelles at pH=7 and (b) hydrodynamic radius (R_h) of DOX-loaded copolymer micelles at pH=7.