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Electronic Supplementary Information for

Functionalized Pluronic-*b*-poly(ε-caprolactone) based nanocarriers of paclitaxel: Solubilization, antiproliferative efficacy and *in vivo* pharmaceutic kinetics

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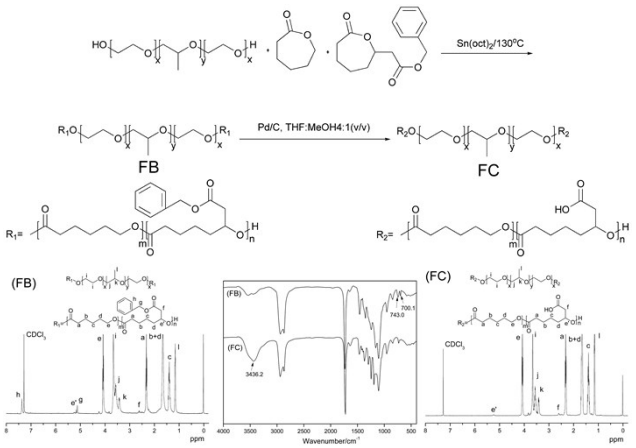

Fig. S1 the synthetic route and the characterization of FB and FC

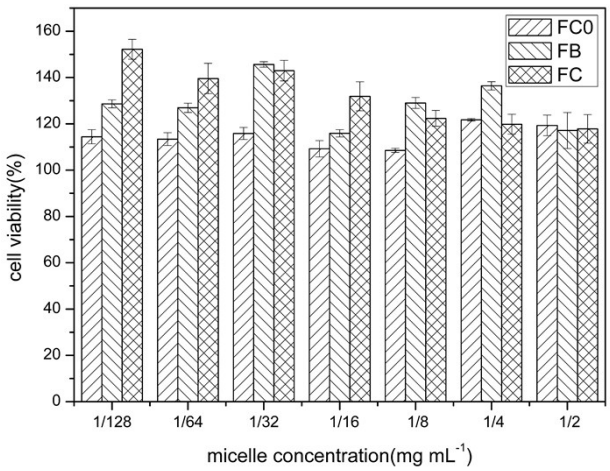

Fig. S2 the cytotoxicity of three blank micelles

Table S1 the characterization of three typical functional Pluronic-*b*-PCLs

Sample	Mn[a] (×10⁴)	Mn[b] (×10⁴)	PDI[b]	Content[a,c]
FC0	2.7	1.9	1.26	0
FB	2.6	2.0	1.46	18.2
FC	2.2	2.3	1.35	17.4

[a] Calculated by ^{1}H NMR with the unit of g mol^{-1}. [b] determined by GPC(THF as mobile phase) with the unit of g mol^{-1}. [c] Content meant the content of functional CL unit in the copolymer and defined as following formula: (mole of functional CL unit in the copolymer)/ (mole of functional CL unit and CL unit in the copolymer.

Table S2 The DLC and EE of PTX loading polymeric micelles. Data are presented as mean ± SD (n = 3)

Polymer	Feed Weight Ratio of PTX:polymer (w/w)	EE (%)	DLC (wt.%)
FC0	0.1:10	85.23 ± 2.44	0.89 ± 0.05
FB	0.1:10	90.74 ± 3.09	0.93 ± 0.03
FC	0.1:10	93.22 ± 6.61	0.95 ± 0.06
FC0	0.2:10	82.33 ± 4.87	1.73 ± 0.09
FB	0.2:10	88.61 ± 5.33	1.84 ± 0.11
FC	0.2:10	90.7 ± 2.08	1.86 ± 0.04
FC0	0.5:10	77.14 ± 3.31	3.92 ± 0.17
FB	0.5:10	82.29 ± 2.93	4.21 ± 0.15
FC	0.5:10	85.69 ± 5.39	4.37 ± 0.26
FC0	1:10	69.48 ± 3.15	6.71 ± 0.29
FB	1:10	75.94 ± 2.78	7.35 ± 0.27
FC	1:10	78.56 ± 4.09	7.48 ± 0.38
FC0	5:10	32.28 ± 5.19	13.56 ± 1.78
FB	5:10	43.85 ± 6.37	17.15 ± 2.31