Supplementary Data for

Amphiphilic miktoarm star copolymer (PCL)$_3$-(PDEAEMA-$b$-PPEGMA)$_3$ as pH-sensitive micelles in the delivery of anticancer drug

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Table S1 GPC and $^1$H NMR data of (PCL)$_3$-Br$_3$ polymers

<table>
<thead>
<tr>
<th>Polymer</th>
<th>$M_{n,\text{Th}}^b$</th>
<th>$M_{n,\text{GPC}}^c$</th>
<th>$M_w/M_n^c$</th>
<th>$M_{n,\text{NMR}}^d$</th>
</tr>
</thead>
<tbody>
<tr>
<td>(PCL$_{16}$)$_3$-Br$_3$</td>
<td>6000</td>
<td>6090</td>
<td>1.28</td>
<td>6173</td>
</tr>
<tr>
<td>(PCL$_{25}$)$_3$-Br$_3$</td>
<td>10500</td>
<td>9459</td>
<td>1.45</td>
<td>9251</td>
</tr>
<tr>
<td>(PCL$_{33}$)$_3$-Br$_3$</td>
<td>12000</td>
<td>10376</td>
<td>1.59</td>
<td>11987</td>
</tr>
</tbody>
</table>

a The subscripts of PCL were the polymerization degree of PCL ($x$) calculated from $^1$H NMR spectra.
b Calculated by feed ratio of monomer to initiator.
c Measured by GPC in THF.
d Calculated by the equations $M_{n,(PCL)_3-Br_3} = 114 \times x \times 3 + 701$. 
Fig. S1 GPC traces of (PCL)$_3$-Br$_3$ products.

Fig. S2 GPC traces of (PCL)$_3$-(PDEAEMA-\(b\)-PPEGMA)$_3$ products.
**Fig. S3**  Plot of $(F - F_{\min})/(F_{\max} - F)$ vs concentration of $(PCL)_{x-}(PDEAEMA-b-PPEGMA)_{y}$ in aqueous solution.