

## **Synthesis and tissue adhesiveness of temperature-sensitive hyperbranched poly(amino acid)s with functional side groups**

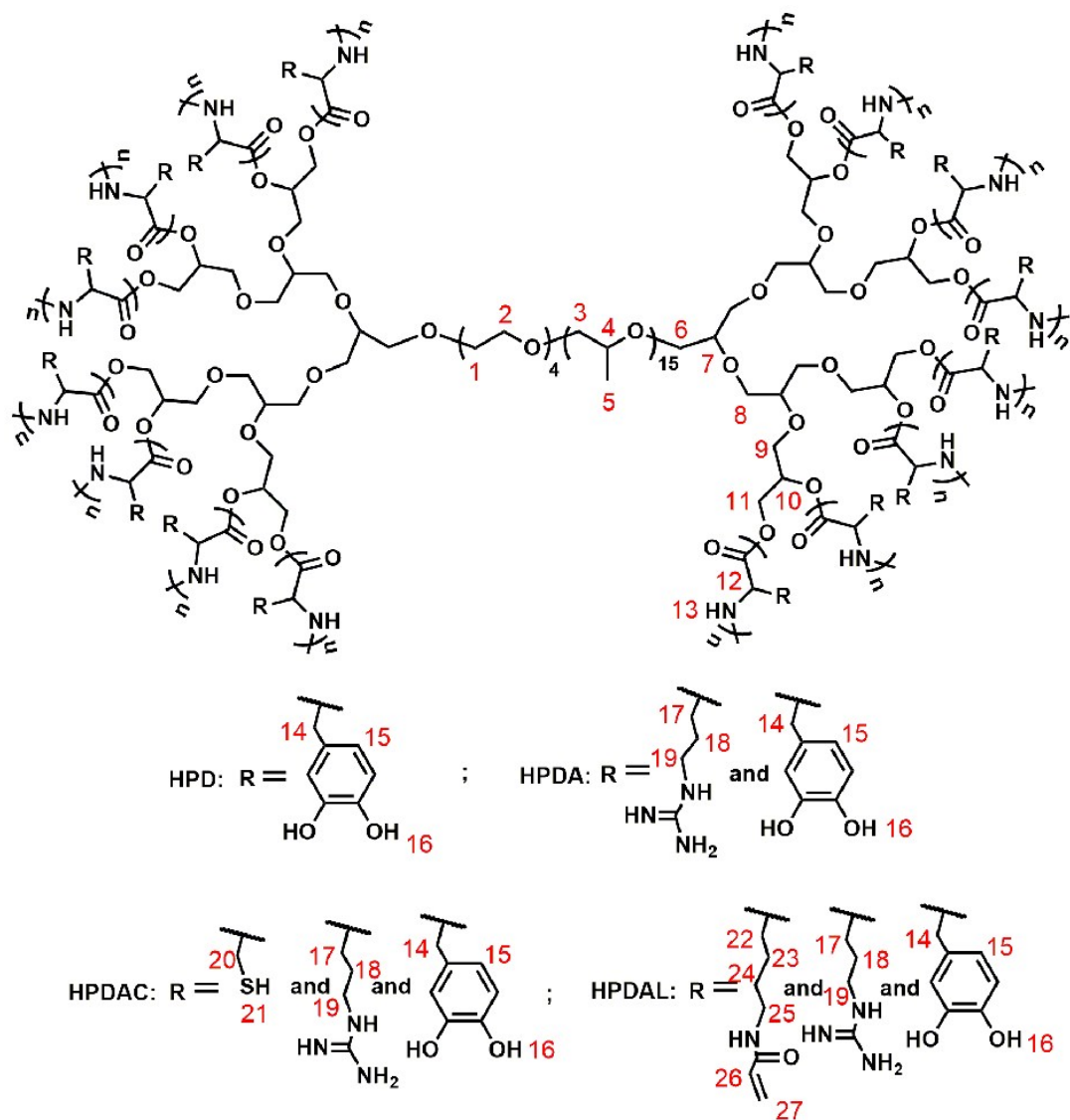
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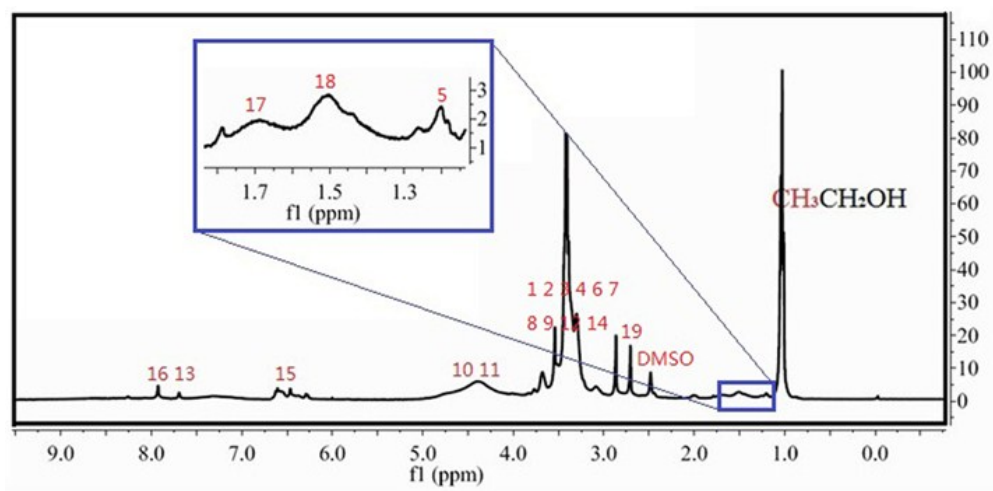
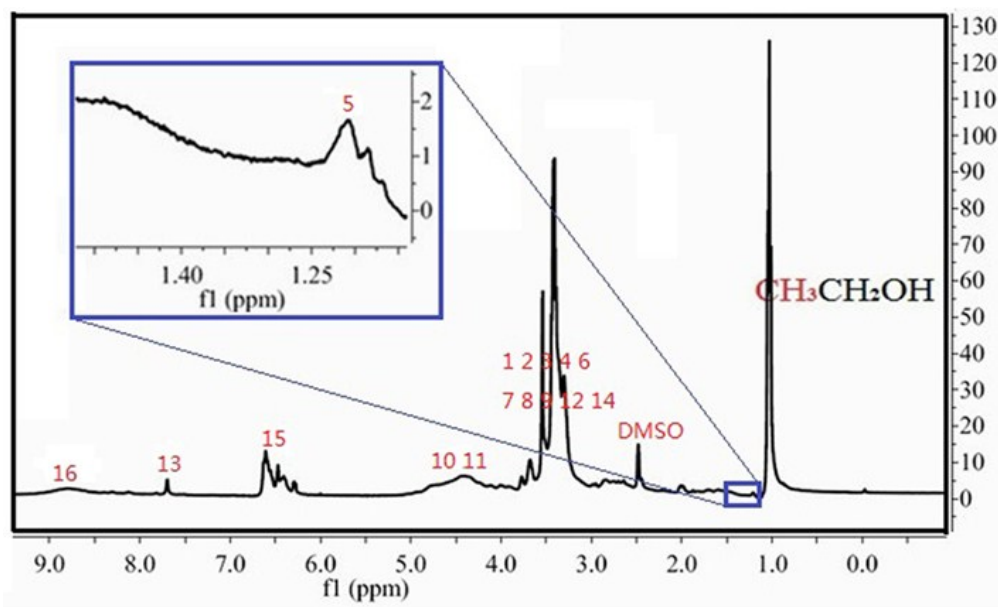
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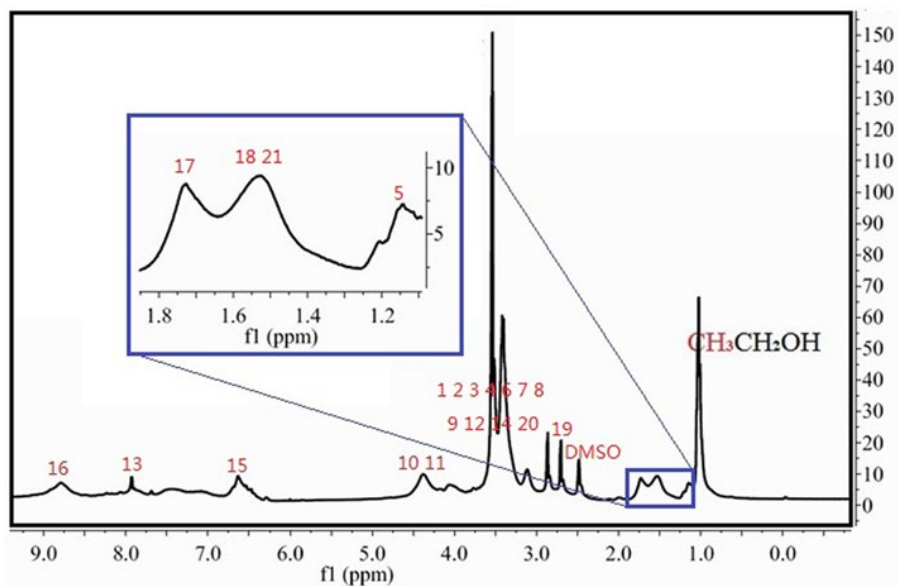
## 1. $^1\text{H}$ NMR spectra



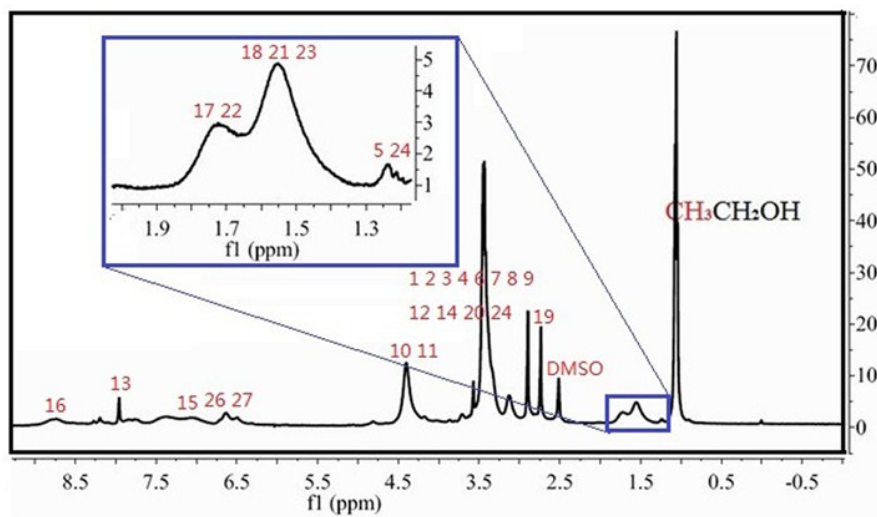
**Fig. S1a** Numbering of copolymeric carbon

Because copolymers were precipitated in ethyl alcohol, the methylic proton signals of ethyl alcohol appeared in  $^1\text{H}$  NMR spectroscopy.





**Fig. S1d**  $^1\text{H}$  NMR spectra of HPDAC



**Fig. S1e**  $^1\text{H}$  NMR spectra of HPDAL

## 2. Cytotoxicity of HPD, HPDA, HPDAC and HPDAL

Following picture show that cell relative proliferation of HPD, HPDA, HPDAC and HPDAL at 24, 48, 72 h.

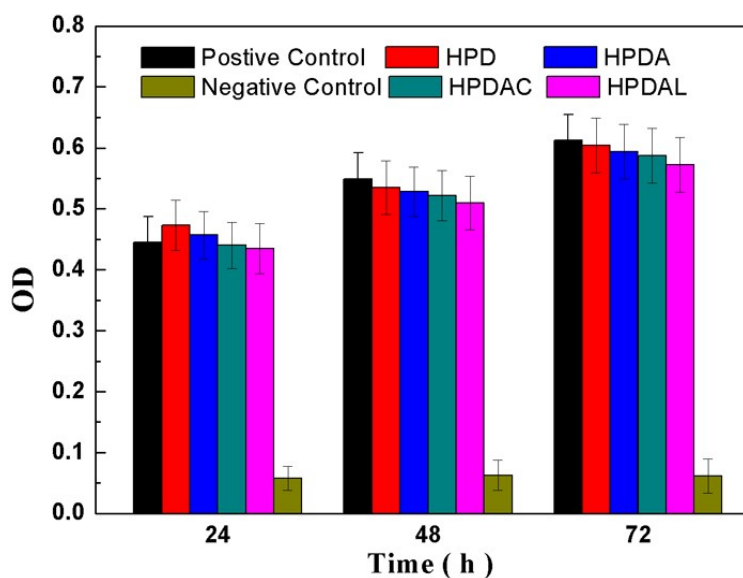


Fig. S2a The OD value of HPD, HPDA, HPDAC and HPDAL

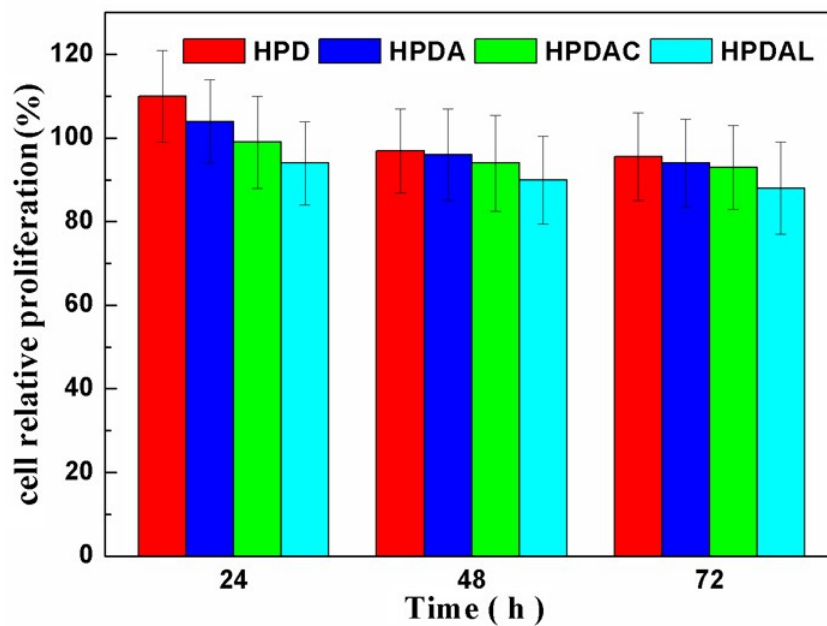


Fig. S2b cell relative proliferation of HPD, HPDA, HPDAC and HPDAL