

## Supporting Information

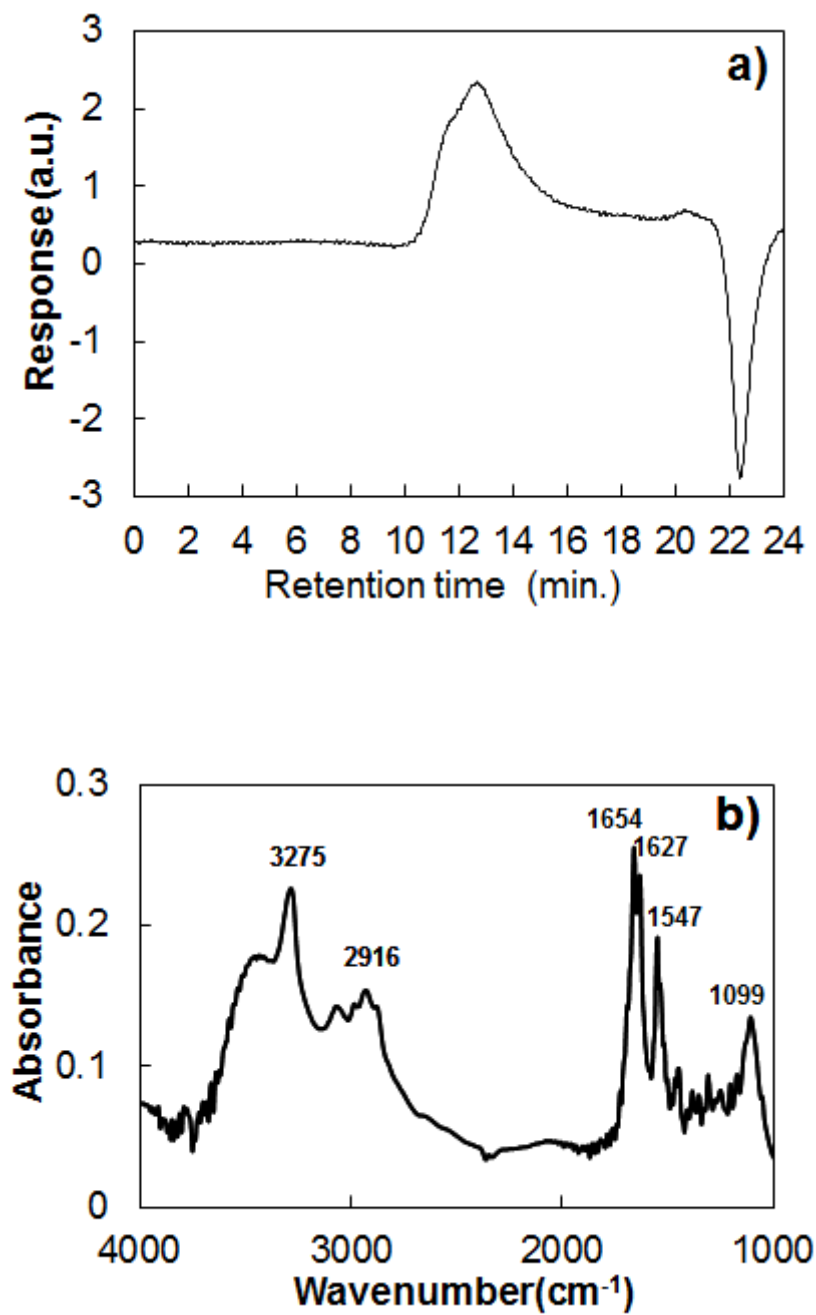
### **Temperature-sensitive polypeptide nanogel for intracellular delivery of biomacromolecular drug**

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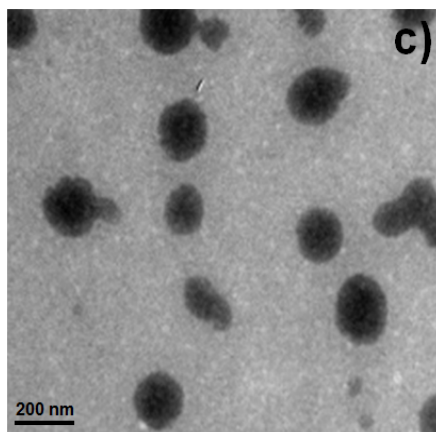
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Fig. S1 Gel permeation chromatogram (a) and FTIR spectra (b) of PEG-PK-PA.



**Fig. S2** Transmission electron microscopy image of PEG-PK-PA /HA nanogels with zero zeta potential. The scale bar is 200 nm.



**Fig. S3** Internalization of the FITC loaded nanogels into the cell after the treatment of inhibitors such as chlorpromazine, filipin, and rottlerin. Positive control indicates the FITC loaded PEG-PK-PA /HA nanogels with zero zeta potential in the absence of inhibitors.

