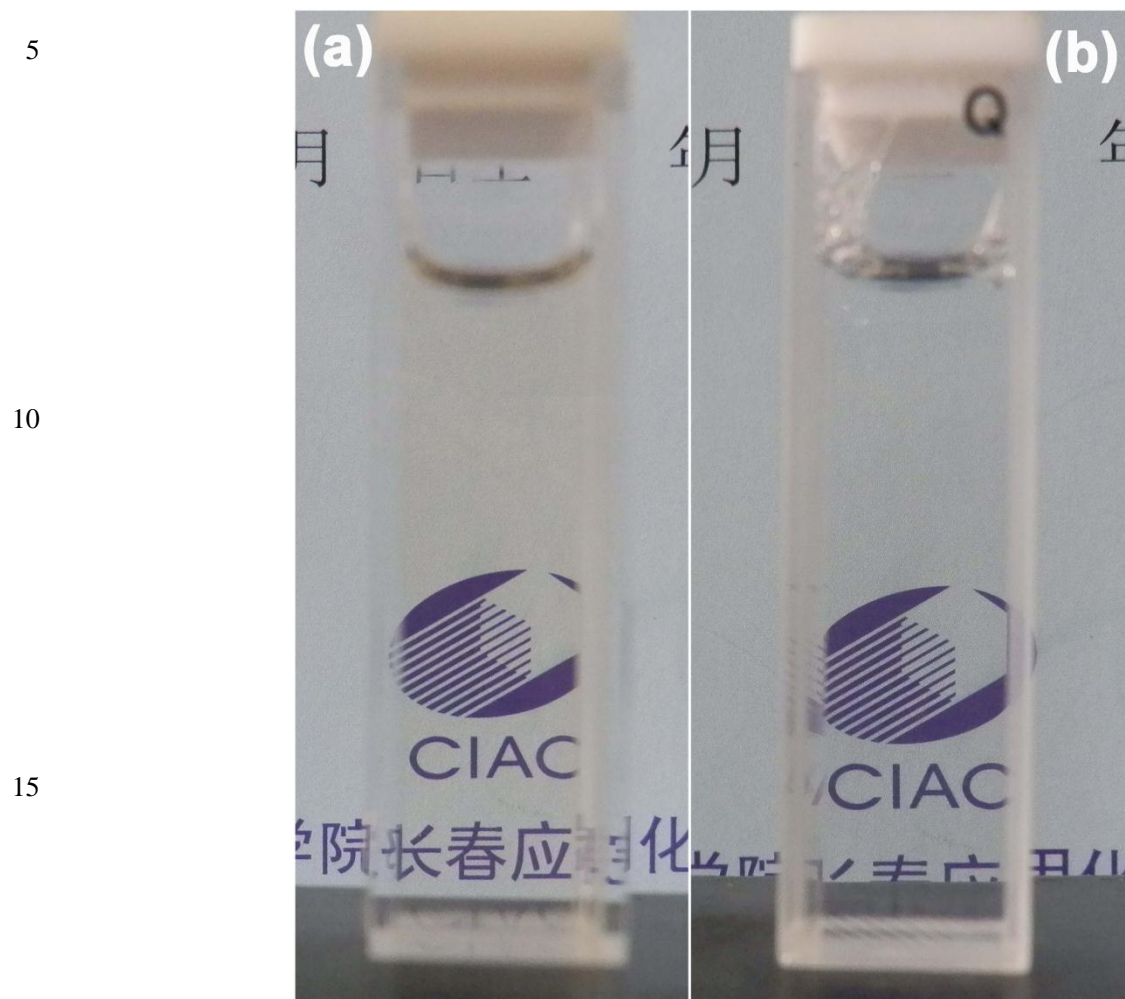


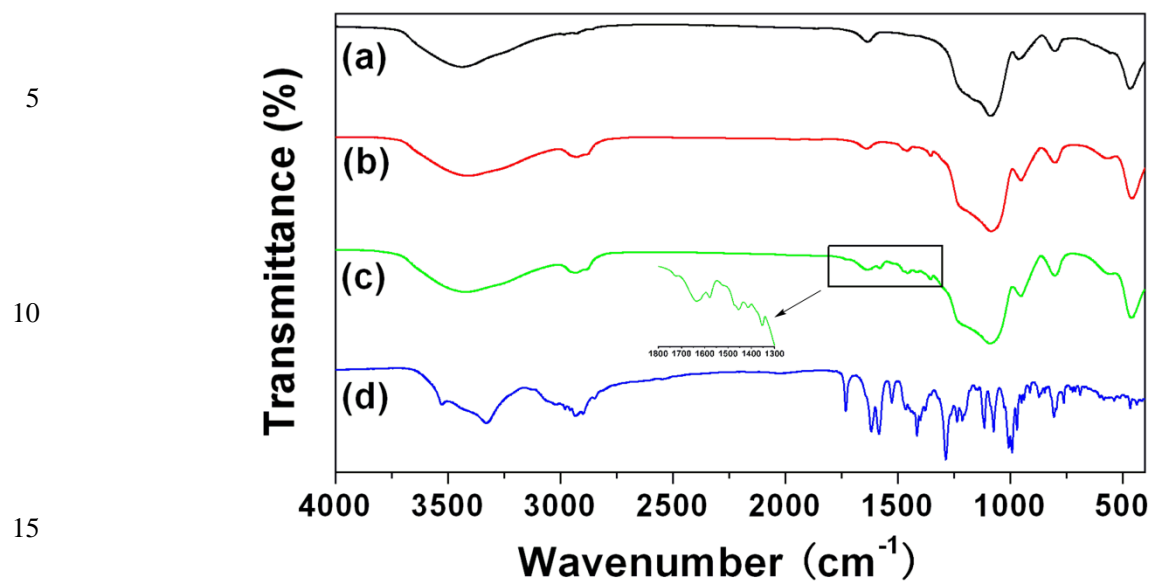
### Supplementary Information:



**Figure S1.** Digital photographs of OA-stabilized NPs (a) and water-soluble NPs (b) under daylight.

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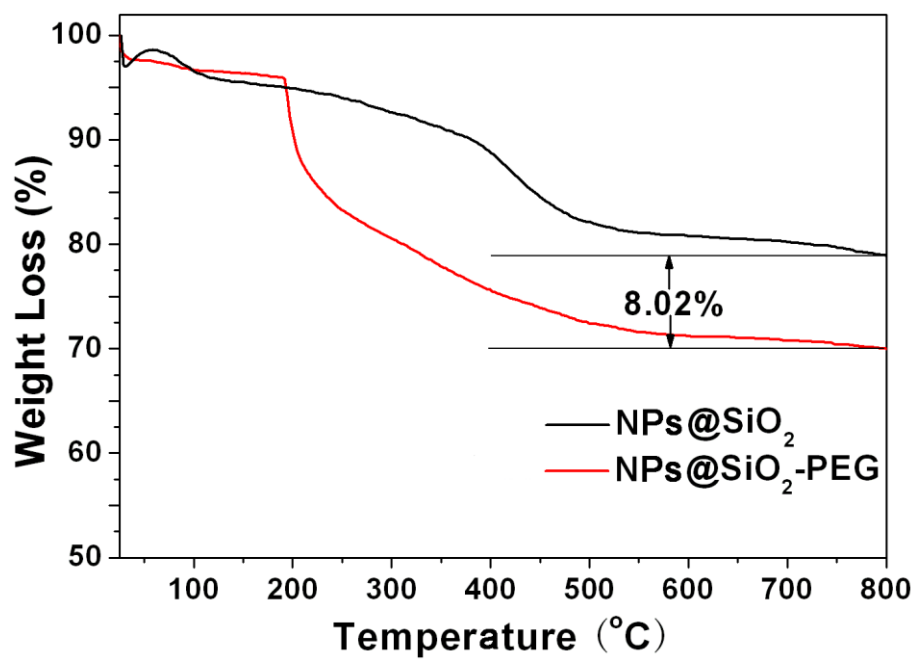


**Figure S2.** FT-IR spectra of NPs@mSiO<sub>2</sub> (a), NPs@mSiO<sub>2</sub>-PEG (b), DOX-loaded NPs@mSiO<sub>2</sub>-PEG (c) and pure DOX (d).

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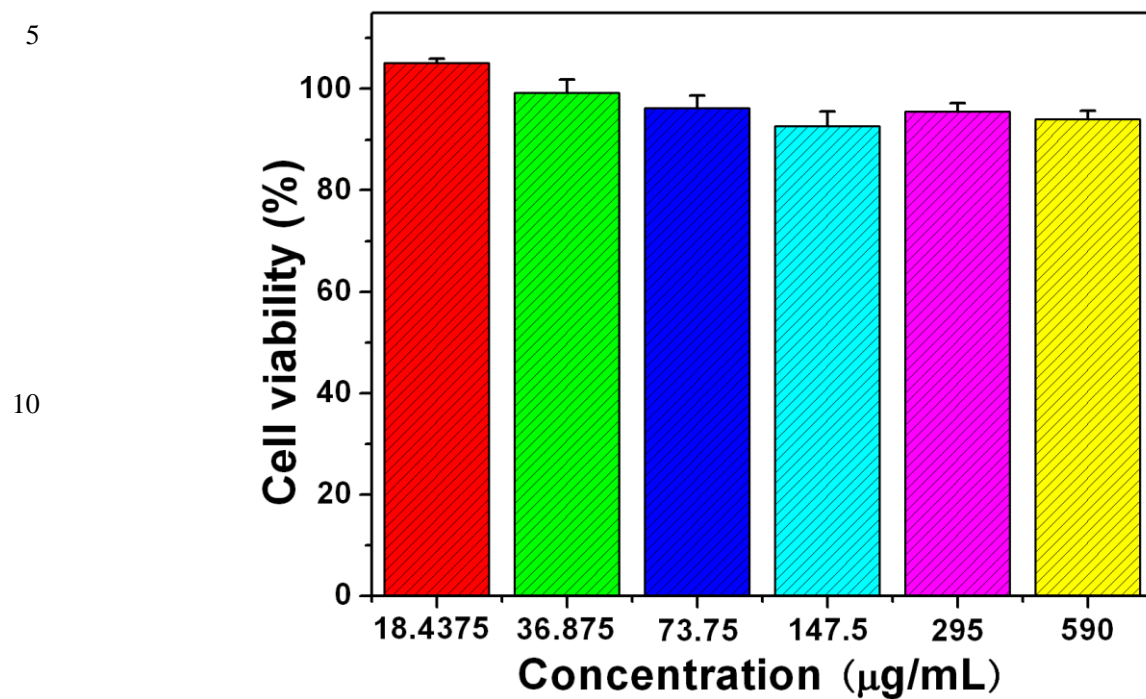


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**Figure S3.** TG curves of NPs@mSiO<sub>2</sub> and NPs@mSiO<sub>2</sub>-PEG.

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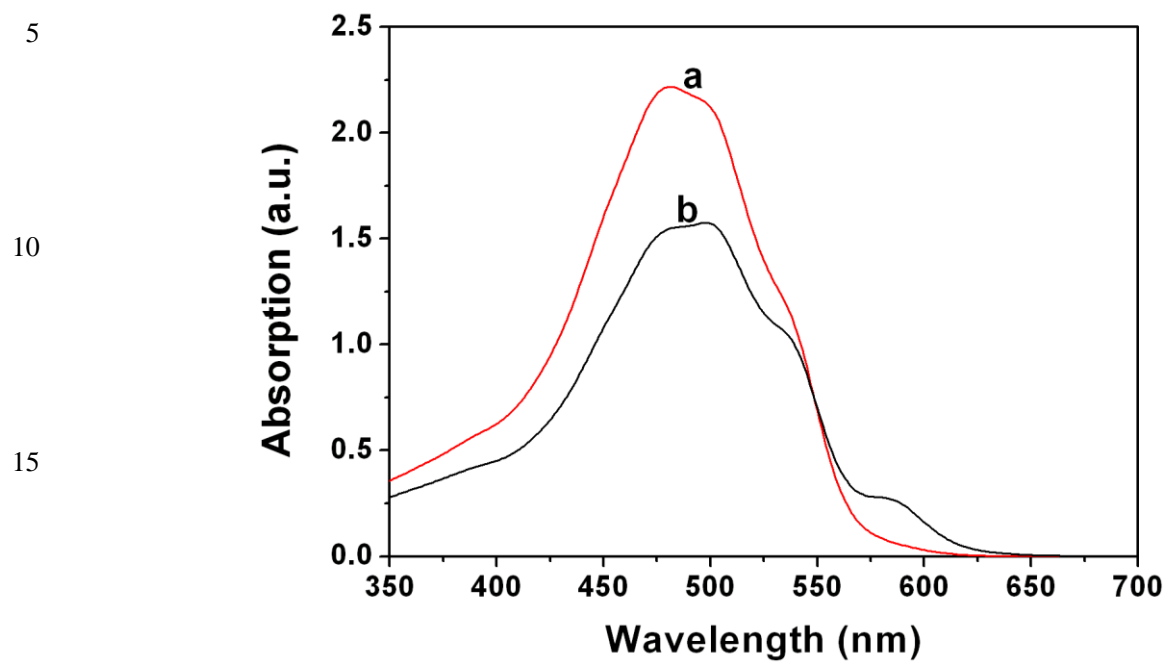


15 **Figure S4.** The L929 fibroblast cells viability after incubating with NPs@mSiO<sub>2</sub>-PEG composite nanospheres for 24 h and quantitative assays by standard MTT method.

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**Figure S5.** UV-vis absorption spectra of DOX solution before (a) and after (b) interaction with NPs@mSiO<sub>2</sub>-PEG nanospheres.