**Size-dependent cytotoxicity of hydroxyapatite crystals on renal epithelial cells**

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Fig. S1. XRD patterns (A) and FT-IR spectra (B) of HAPs with different sizes. (a) HAP-40 nm; (b) HAP-70 nm; (c) HAP-1 µm; (d) HAP-2 µm; (e) HAP standard spectra (JCPDS No. 09-0432).





Fig. S2. Zeta potential (A) and conductivity (B) of HAPs with different sizes in DMEM/F-12 medium and pure water.

 

 

Fig. S3. N2 adsorption and desorption curves and pore size distribution curves (illustration) of HAP with different sizes. (A) HAP-40 nm; (B) HAP-70 nm; (C) HAP-1 μm; (D) HAP-2 μm.