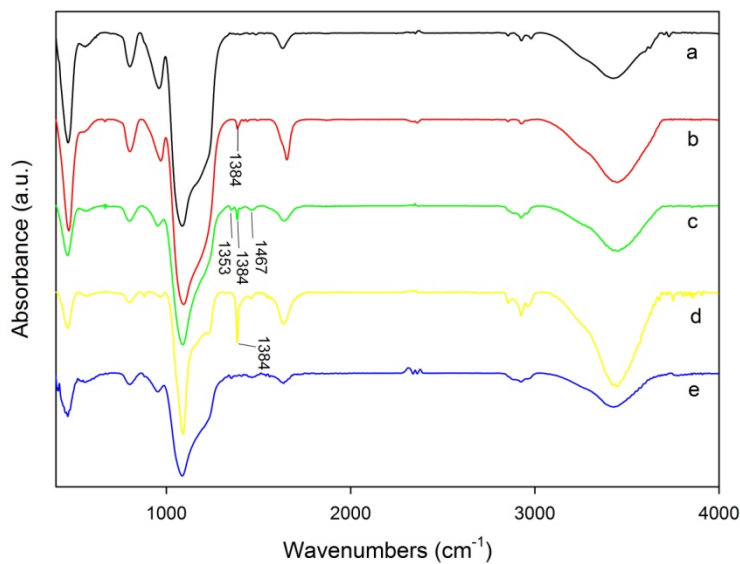


## Supporting Information

# pH-Responsive polymer/mesoporous silica nano-container through an acid cleavable linker for intracellular controlled release and tumor therapy *in vivo*

Mian Chen<sup>§</sup>, Xiaoxiao He<sup>§</sup>, Kemin Wang<sup>\*</sup>, Dinggeng He, Shuna Yang, Pengchao Qiu and Suye Chen

E-mail: kmwang@hnu.edu.cn. §: These authors contributed equally.



**Fig. S1** FT-IR spectra of (a) MSN, (b) MSN-COOH, (c) ACL-MSN, (d) PAA-ACL-MSN, and (e) PAA-ACL-MSN with acid treatment.

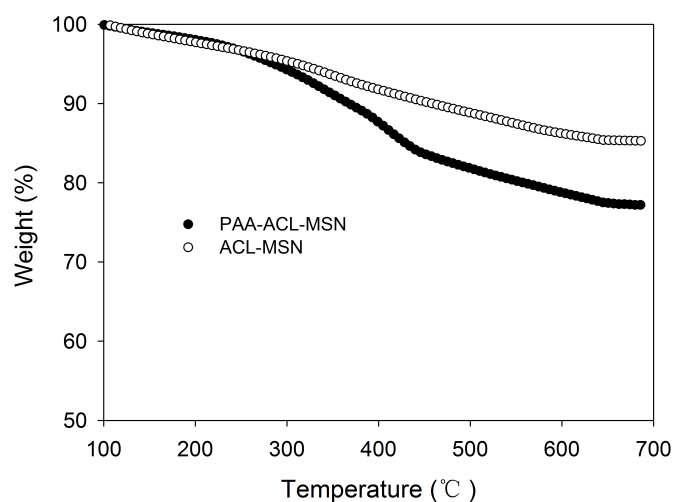


Fig. S2 TGA curves of ACL-MSN, and PAA-ACL-MSN.

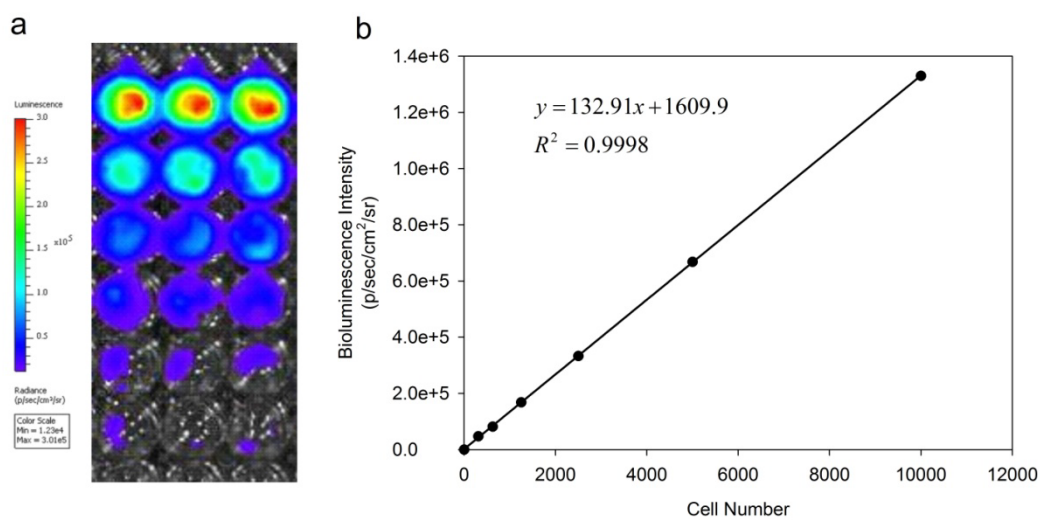


Fig. S3 A linear relation of bioluminescence intensity, compared to different numbers of HNE-1 cells. (a) Bioluminescence imaging of HNE-1 cells ( $10^4$ , 5000, 2500, 1250, 625). Bioluminescence was visualized by using a Lumina II imaging system (Xenogen). (b) Corresponding bioluminescence intensity curves of (a).