

Supporting Information

Modified Biomimetic Core-Shell Nanostructure Enable Long Circulation and Targeted Delivery For Cancer Therapy

Yifan Zhang^a, Enrico Benassi^{a,b}, Yue Shi^c, Xuanyu Yue^d, Lin Cui^a, Shengchao Yang^{a,*}, Zhiyong Liu^{a,*}, Xuhong Guo^{a,e}

^a*School of Chemistry and Chemical Engineering, Shihezi University/ Key Laboratory of Green Process for Chemical Engineering / Key Laboratory for Chemical Materials of Xinjiang Uygur Autonomous Region / Engineering Center for Chemical Materials of Xinjiang Bingtuan, Shihezi University, Xinjiang, Shihezi 832003, China.*

^b*Novosibirsk State University, Novosibirsk, 630090, Russia.*

^c*Shenzhen Key Laboratory of Biomimetic Materials and Cellular Immunomodulation, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, Shenzhen, Guangdong 518055, China*

^d*Research Institute of Photocatalysis, State Key Laboratory of Photocatalysis on Energy and Environment, Fuzhou University, Fuzhou, 350002, China.*

^e*State Key Laboratory of Chemical Engineering, East China University of Science and Technology, Shanghai 200237, P. R. China.*

* Corresponding author: Zhiyong Liu, Shengchao Yang.

Address: Beisi Road, Shihezi City, Xinjiang, 832003, P. R. China.

Tel: 13677533280, 16609932906.

E-mail Address: lzyongclin@sina.com(Zhiyong Liu), shengchao.yang@shzu.edu.cn
(Shengchao Yang).

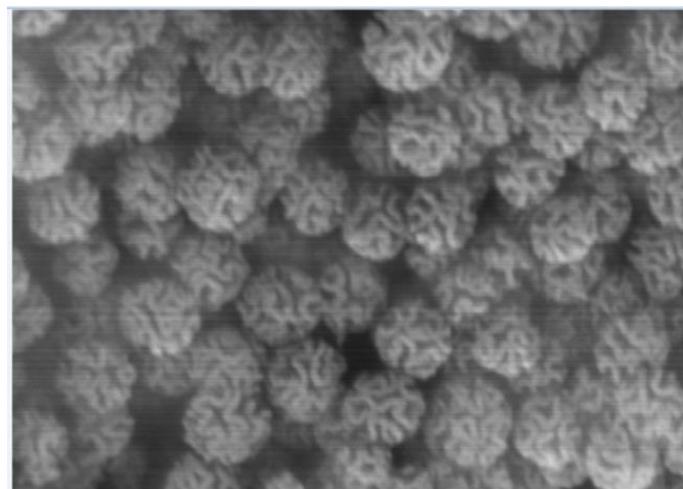


Fig. S1 SEM images of MSN-1 and Bio-RBCm@MSN-DOX.

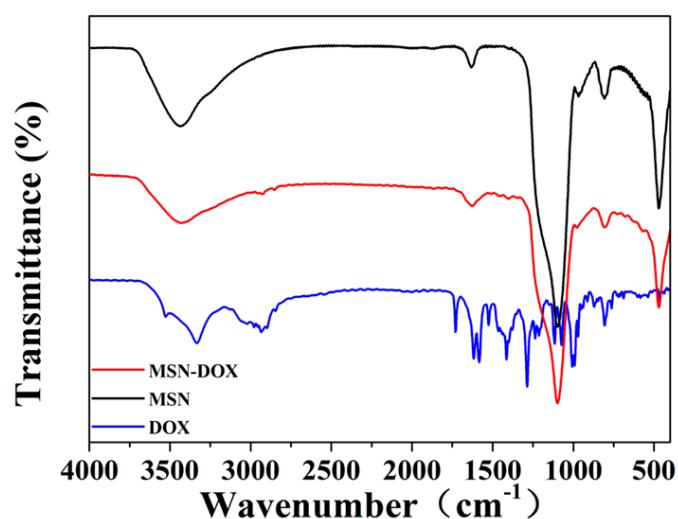


Fig. S2 FT-IR spectra of MSN, DOX, MSN-DOX.

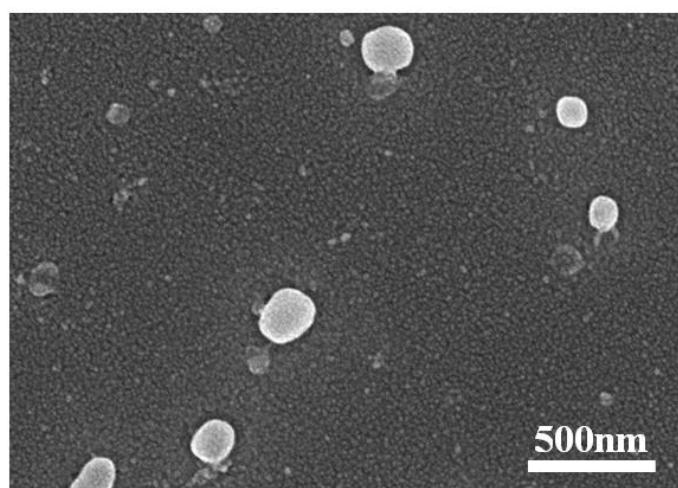


Fig. S3 SEM images of Bio-RBCm@MSN-DOX, scale bar=500 nm.

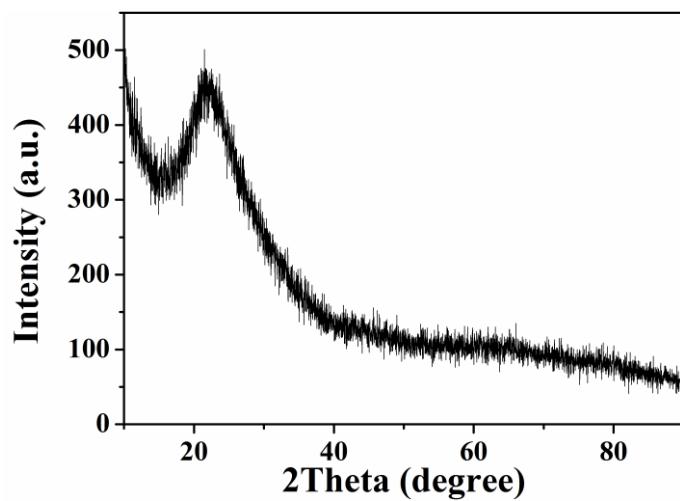


Fig. S4 XRD spectrum of MSN-1.

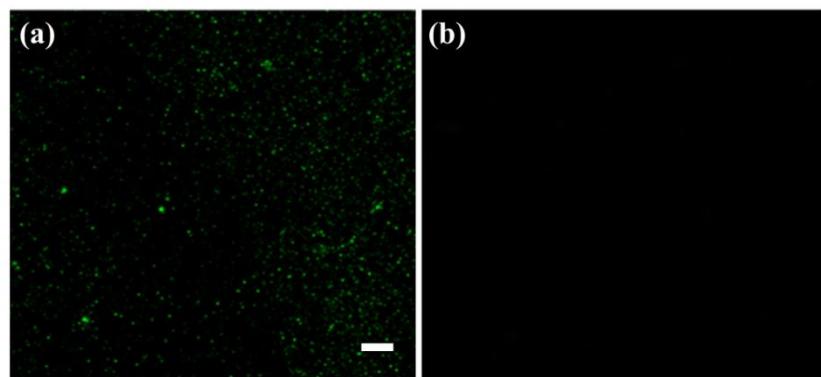


Fig. S5 CLSM images of Bio-RBCm@MSN(a) and MSN(b) labeled by the cell membrane dye DiO. Scale bar is $5 \mu\text{m}$.