Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Support information

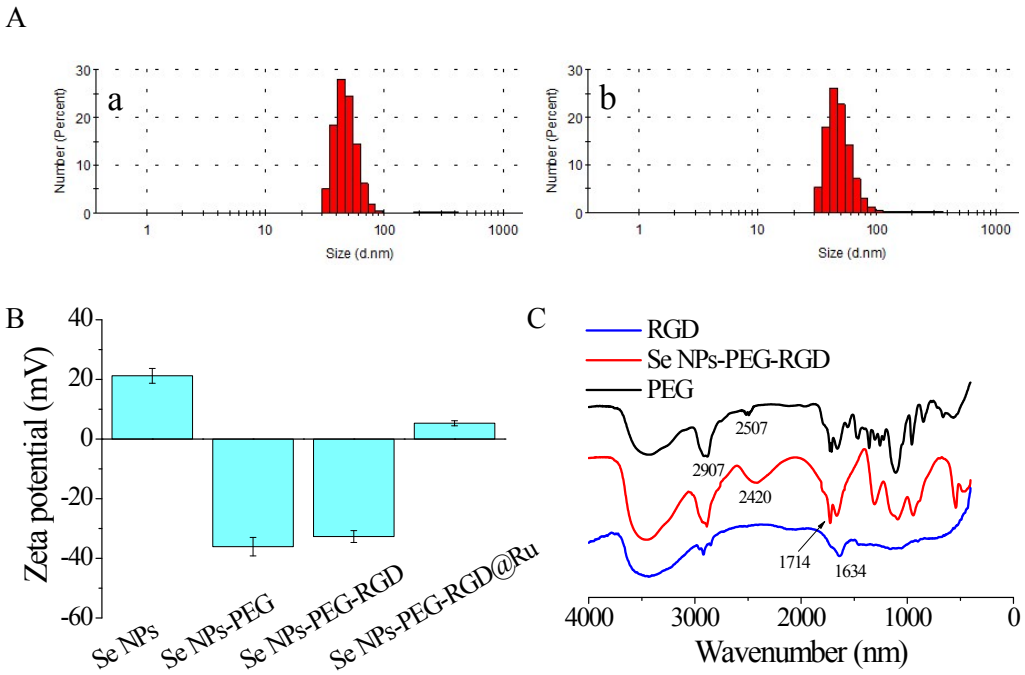
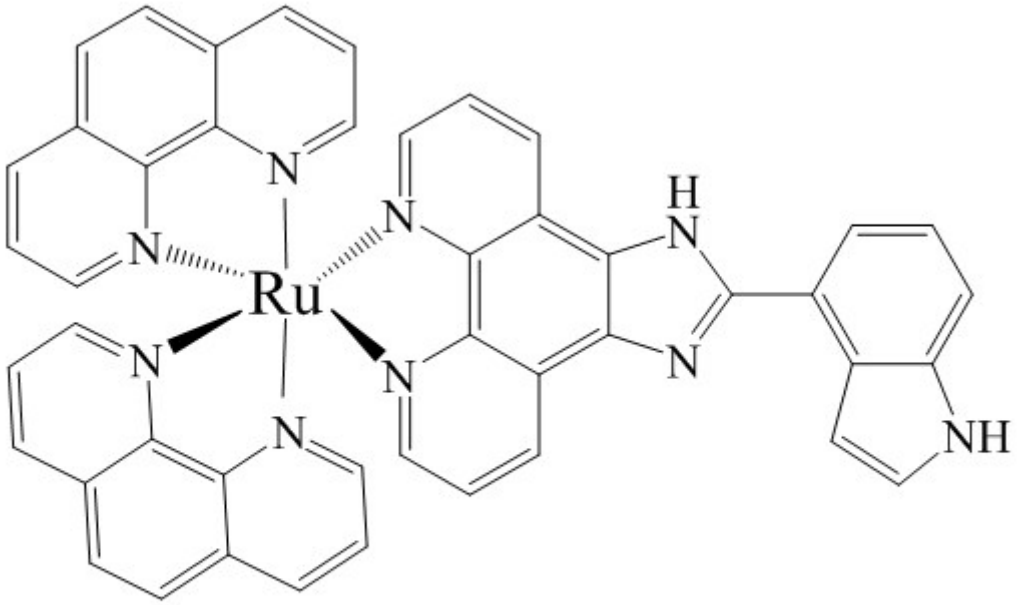


Fig. S1. (A) Size distribution of SeNPs and SeNPs-PEG-RGD@Ru based on dynamic light scattering. (B) Zeta-potential of SeNPs, SeNPs-PEG, SeNPs-PEG-RGD and SeNPs-PEG-RGD@Ru in 10 mM pH 7.4 HEPES buffer. (C) FT-IR spectra of RGD, PEG and SeNPs-PEG-RGD.



$[Ru(phen)_2(4idip)](ClO_4)_2$

Fig. S2.The nitric oxide induction properties of three ruthenium complexes were examined. The three ruthenium complexes are $[Ru(iP)_3](ClO4)_2 \cdot 2H_2O$, $Na[trans\text{-}Ru(DMSO)_2Cl_4]$ and $[Ru(Phen)_2(4idip)](ClO_4)_2$. The structure of ruthenium complexes with the best performance of nitric oxide indication is shown in the Fig. above.

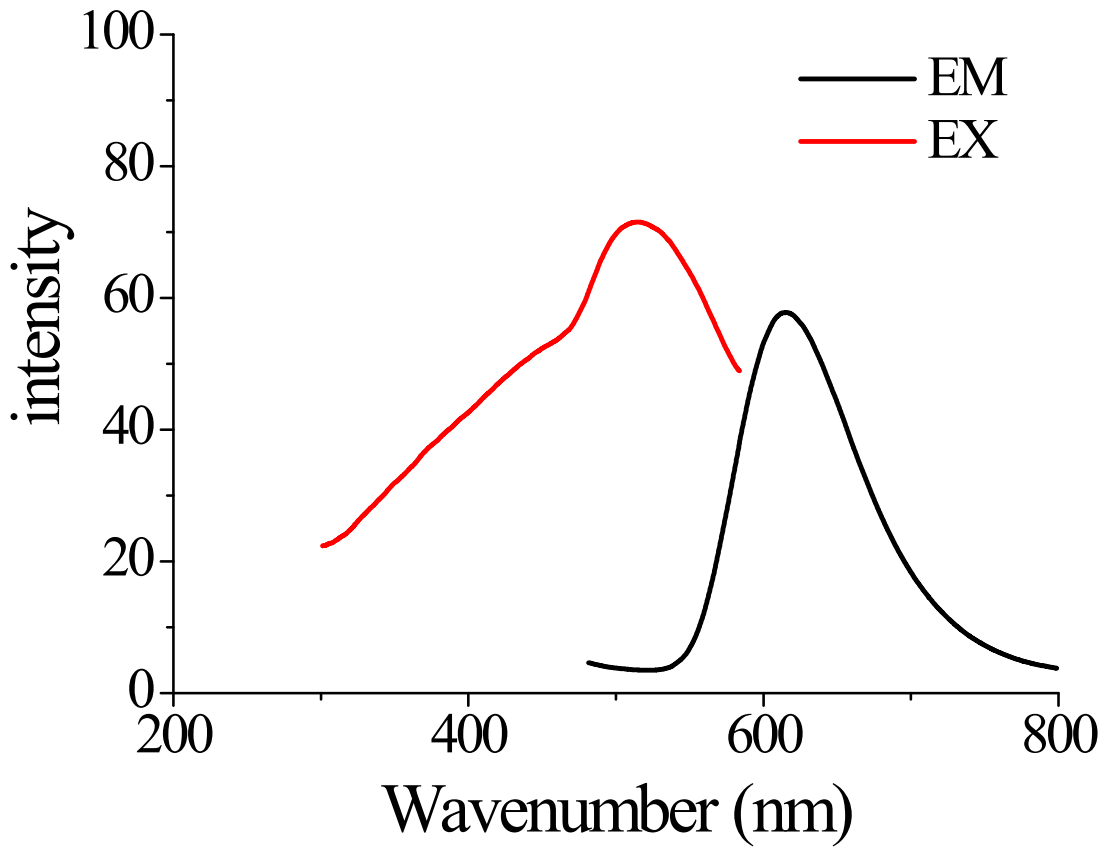


Fig. S3. The Excitation and emission fluorescence spectra of $[Ru(Phen)_2(4idip)](ClO_4)_2$

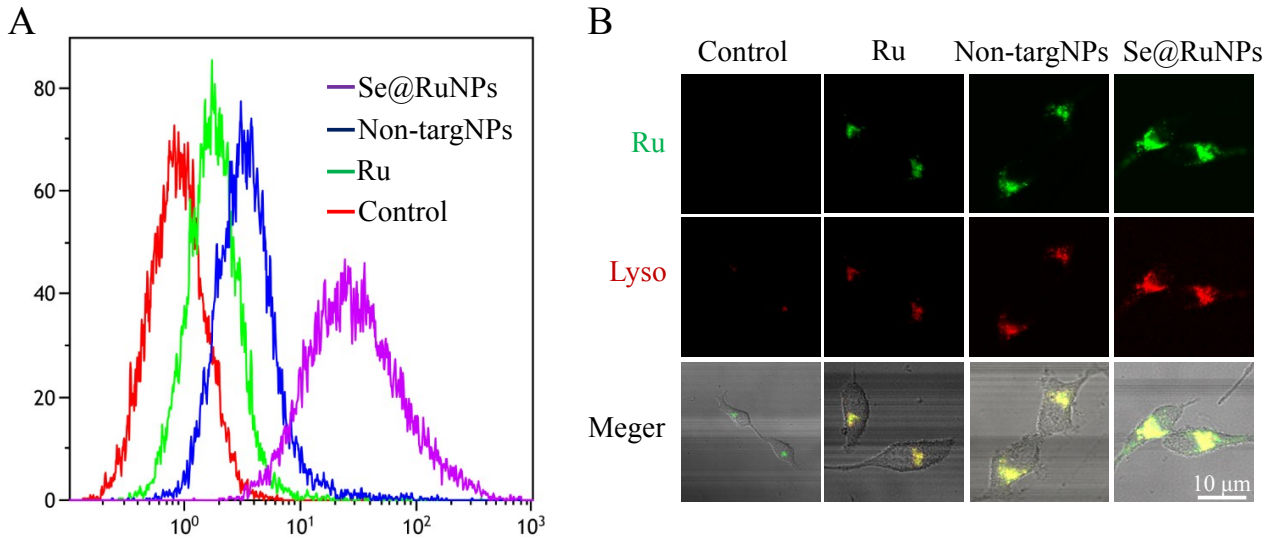


Fig. S4. (A) flow cytometry assays the fluorescent intensity among cells, which incubated with Ru, Non-targNPs, Se@RuNPs for 12 h. (B) Confocal fluorescence microscopy of HUVEC, which incubated with Ru, Non-targNPs, Se@RuNPs for 12 h. Ru, Non-targNPs, Se@RuNPs is labeled by Ru in green; endosome lysosomes are labeled by Lysotracker in red.

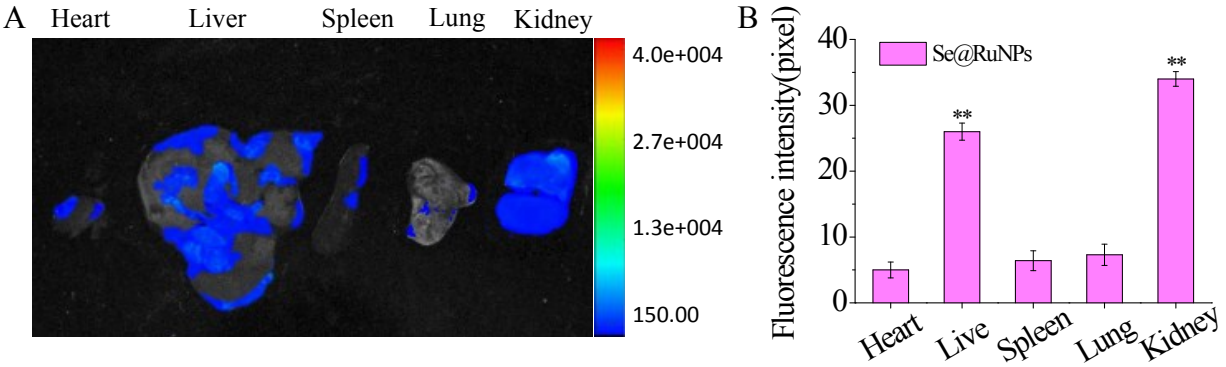


Figure S5. Ex vivo fluorescence images of major organs (heart, liver, spleen, lung, kidney) dissected from at 48 h post-injection of Se@RuNPs. (B) Quantitative analysis of the fluorescence intensity based on Figure A. **P < 0.01, The error bars represent the standard error of mean (n = 5).