Electronic Supplementary Information (ESI)

Se/Ru nanoparticles as an inhibitor of metal-induced Aβ aggregation in Alzheimer's disease

Licong Yang[1], Qingchang Chen[1],Ying Liu, Jingnan Zhang, Dongdong Sun, Yanhui Zhou and Jie Liu*

Department of Chemistry, Jinan University, Guangzhou 510632, China.
Tel.: +86 20 85220223; fax: +86 20 85220223; E-mail: tliuliu@jnu.edu.cn
[1]: Both authors contribute equally to this work.

Element	Weight (%)	Atomic (%)
Se	36.28	29.60
Ru	21.11	13.64
Cu	30.09	30.51
S	7.95	15.98
Si	4.55	10.45
Totals	100	

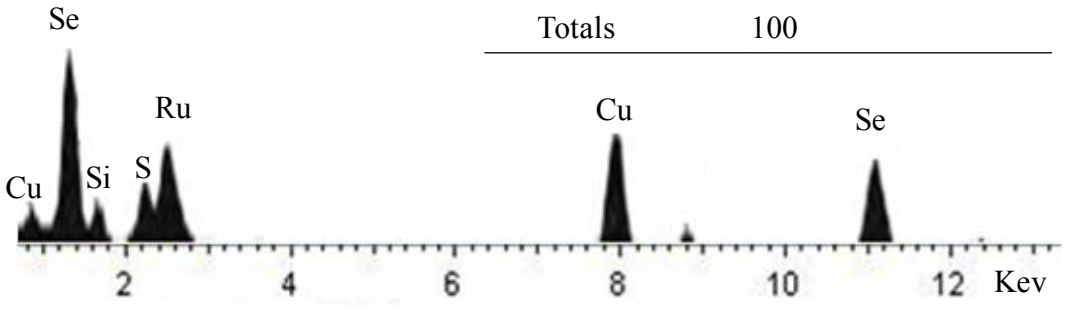

Figure S1. EDX analysis of Se/RuNPs.

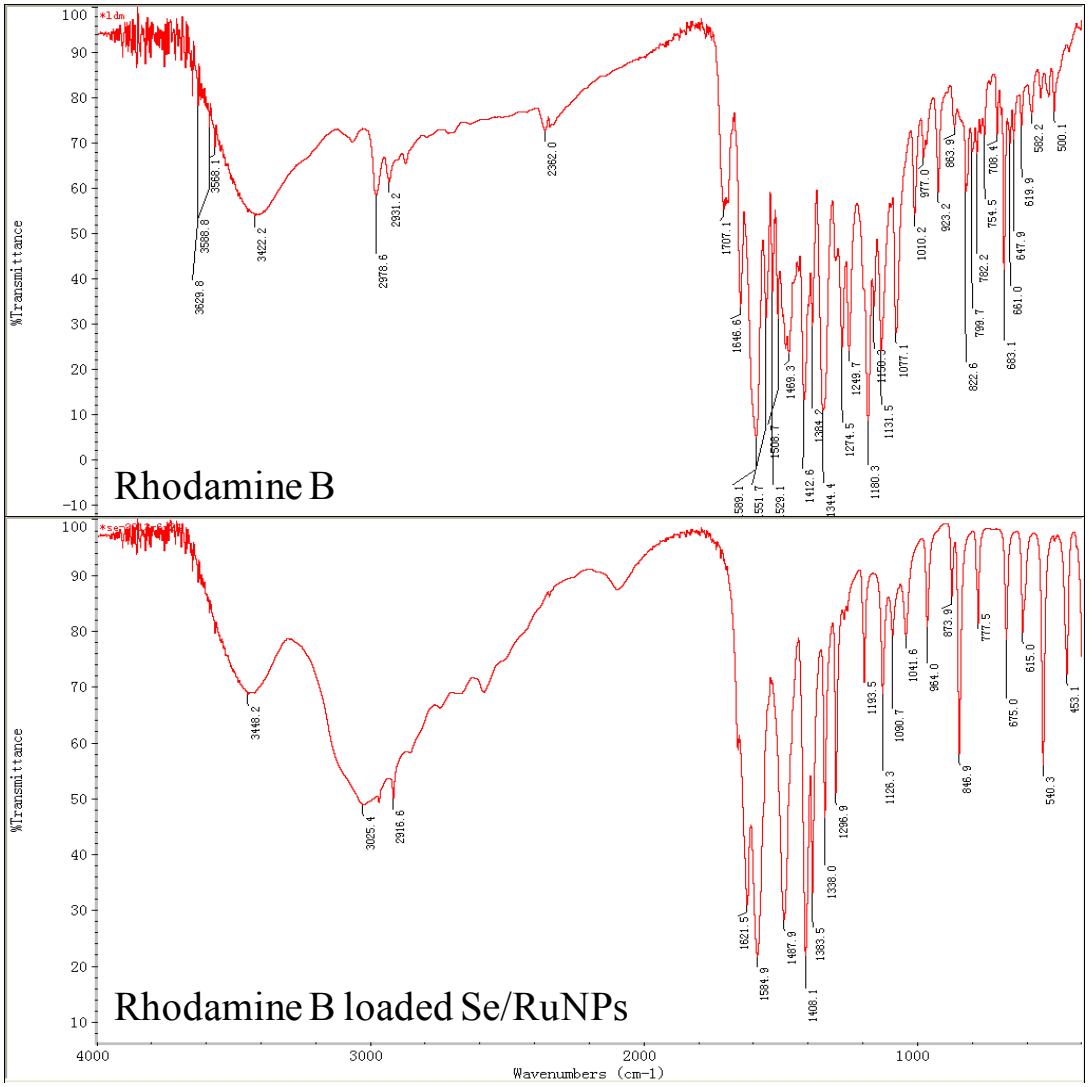

Figure S2. FT-IR spectra of Rhodamine B and Rhodamine B loaded nanoparticles. Nanoparticles were centrifuged at 13000 g for 30 min and the sediment was dried in room temperature.

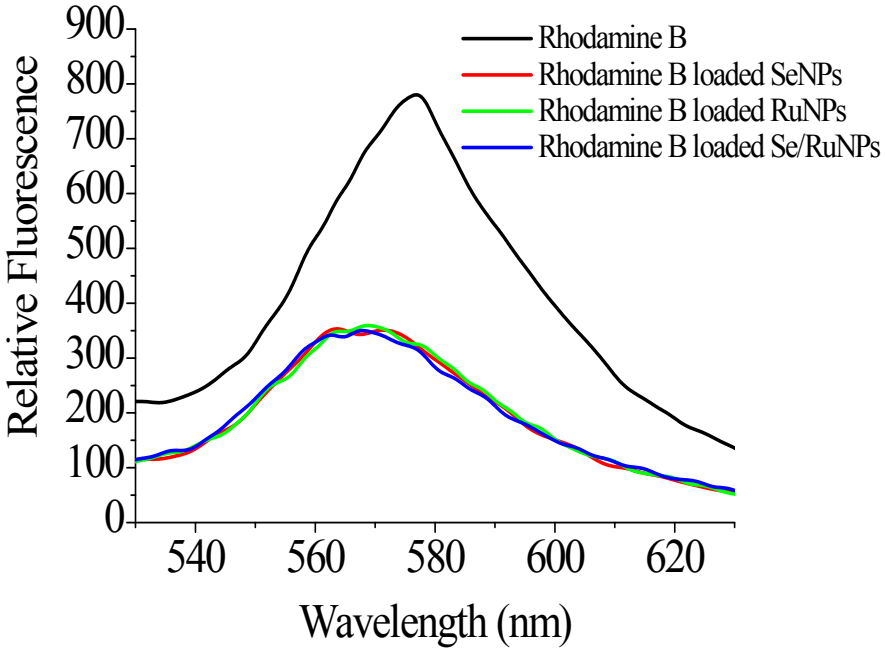

Figure S3. The emission spectrum of Rhodamine B loaded nanoparticles.

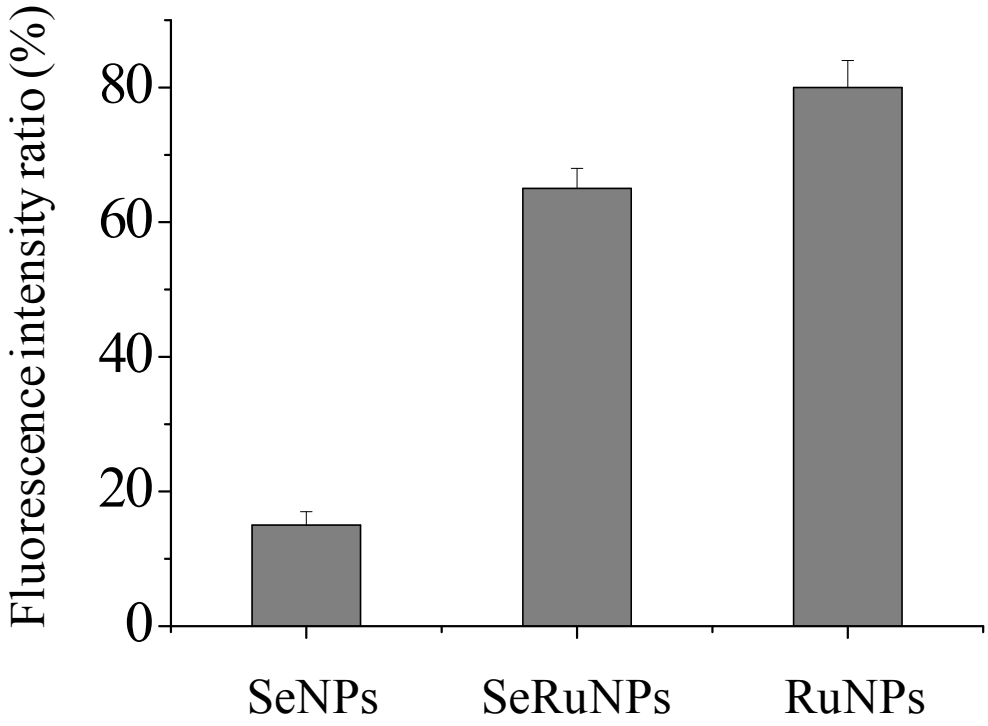

Figure S4. The fluorescence intensity ratio of nanoparticles on $A\beta_{40}$ fibers.

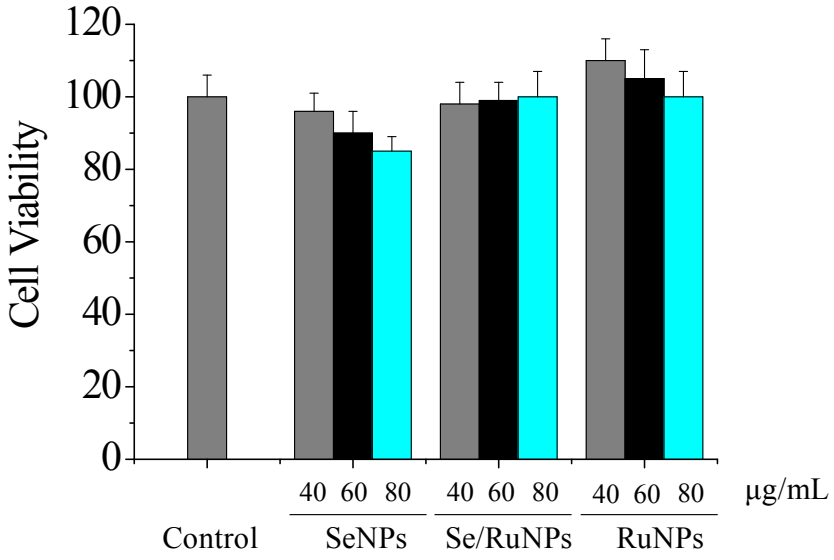

Figure S5. The neurotoxicity of nanoparticles.

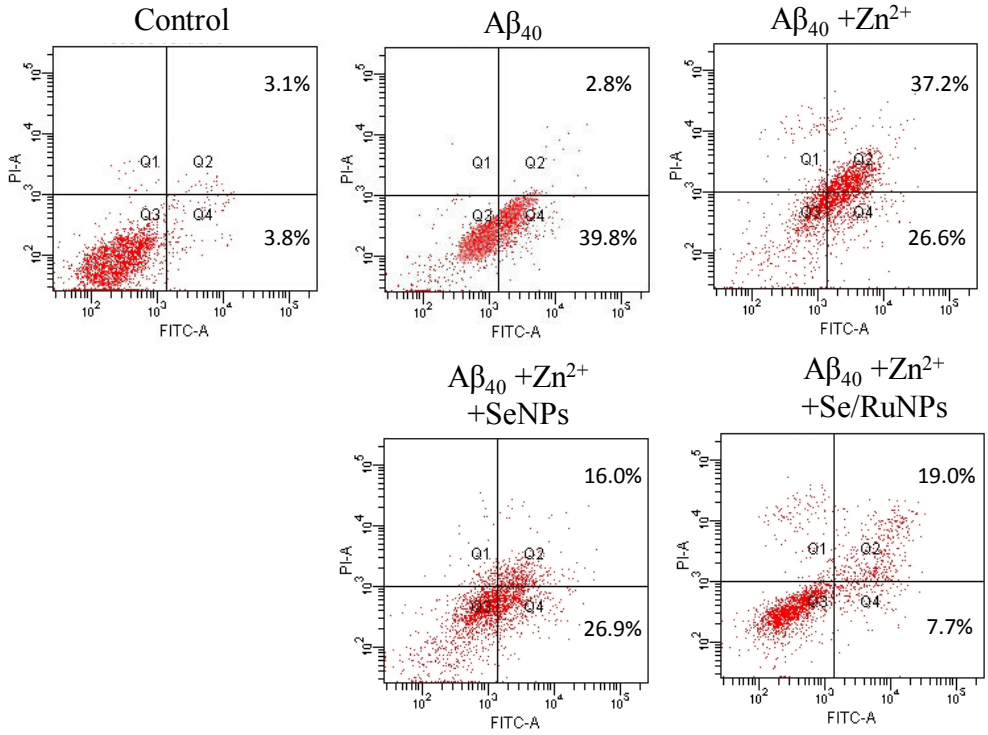

Figure S6. Se/RuNPs prevent the cell death induced by $A\beta_{40}$ in PC12 cells. Apoptotic cell death induced by $A\beta_{40}$ was determined by flow cytometry.