Electronic Supplementary Information

for

A sensitive spectrofluorometry of cellular prion protein based on the on/off interaction between fluorescent dye-labeled aptamer and multi-walled carbon nanotubes

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**Fig. S1** Effect of pH on the fluorescence intensity of Apt-MWCNTs conjugates with and without PrP<sup>C</sup>. Inset: the relative fluorescence intensity ($F/F_0$) versus pH. TAMRA-aptamer concentration: 25 nM. PrP<sup>C</sup> concentration: 50 nM. Excitation wavelength: 525 nm.
**Fig. S2.** Effect of ionic strength on fluorescence intensity of Apt-MWCNTs conjugates in the absence and presence of PrP<sup>C</sup>. Inset: the relative fluorescence intensity ($F/F_0$) versus different concentration of NaCl. TAMRA-aptamer concentration: 25 nM. PrP<sup>C</sup> concentration: 50 nM. Excitation wavelength: 525 nm.
**Fig. S3** Fluorescence spectra of the suspension and precipitates after removing the MWCNTs. TAMRA-aptamer concentration: 25 nM. PrP$_C$ concentration: 50 nM. Excitation wavelength: 525 nm.