Electronic Supplementary Information

Enzymatic product-mediated stabilization of CdS quantum dots produced *in situ:* Application for detection of acetylcholinesterase activity

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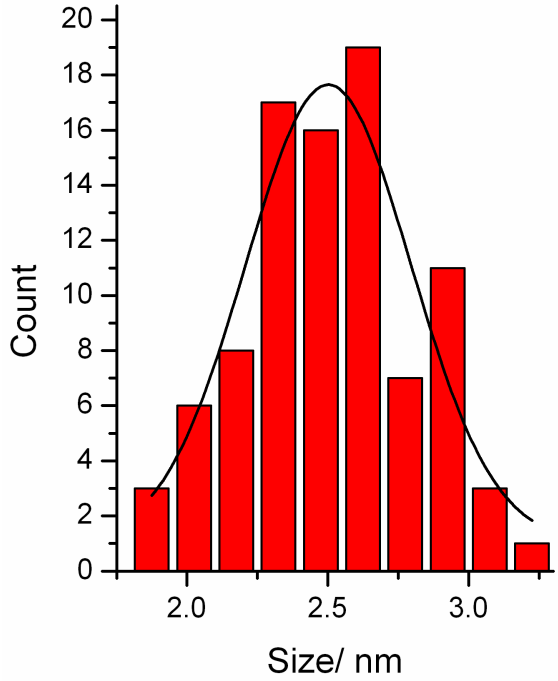

Figure 1S. Size distribution of the thiocholine stabilized CdS QDs.

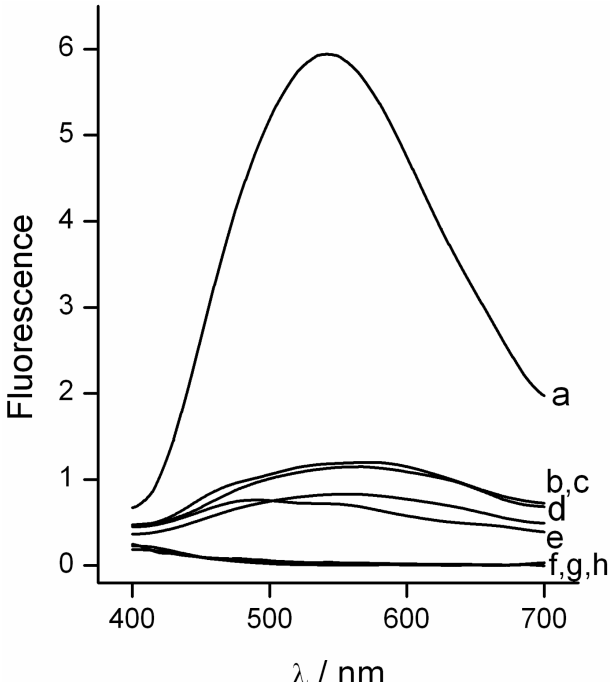

Figure 2S. Emission spectra in the system containing: a) AChE (10 mU mL^{-1}), ATCh (0.5 mM), Na_2S (0.1 mM) and $Cd(NO_3)_2$ (1.25 mM); b) Acetylcholine (0.5 mM), Na_2S (0.1 mM) and $Cd(NO_3)_2$ (1.25 mM); c) AChE (50 mU mL^{-1}), Acetylcholine (0.5 mM), Na_2S (0.1 mM) and $Cd(NO_3)_2$ (1.25 mM); d) ATCh (0.5 mM), Na_2S (0.1 mM) and $Cd(NO_3)_2$ (1.25 mM); e) AChE (10 mU mL^{-1}), Na_2S (0.1 mM) and $Cd(NO_3)_2$ (1.25 mM); f) AChE (10 mU mL^{-1}), ATCh (0.5 mM) and $Cd(NO_3)_2$ (1.25 mM); g) AChE (10 mU mL^{-1}), ATCh (0.5 mM) and Na_2S (0.1 mM); h) AChE (10 mU mL^{-1}).