

## Electronic Supplementary Information (ESI)

### Near-infrared broadly emissive AgInSe<sub>2</sub>/ZnS quantum dots for biomedical optical imaging

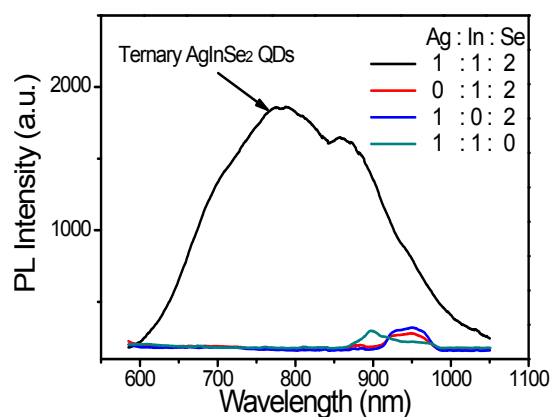
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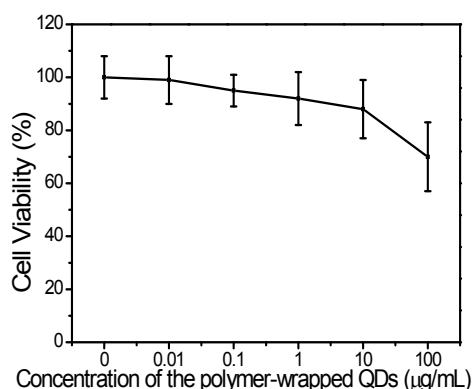
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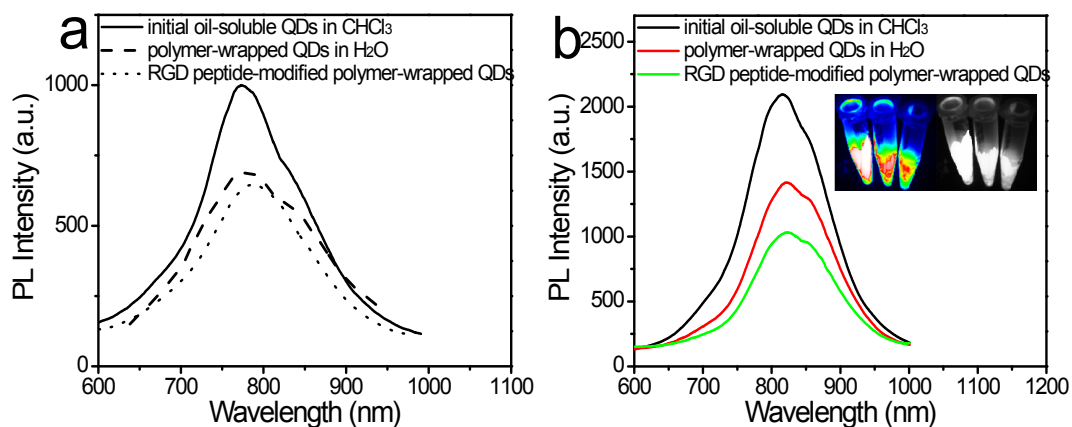
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**Fig. S1** PL spectra of the dispersions prepared with different Ag/In/Se feed ratios, in which Se powder dissolved in the mixture of oleylamine (OLA) and 1-dodecanethiol (DDT) was used as Se source.



**Fig. S2** Cell viability of human embryonic lung fibroblast (HELFL) cells incubated with different concentrations of amphiphilic polymer-wrapped QDs ([QDs]=0, 0.01, 0.1, 1, 10, and 100 µg/mL) for 48 h. Here, MTT assay was conducted to assess preliminarily the cytotoxicity of QDs. The OD was measured with a Microplate Reader (Biorad).



**Fig. S3** (a) and (b) PL spectra of initial oil-soluble AlSe/ZnS QDs, amphiphilic polymer-wrapped QDs and RGD-modification amphiphilic polymer-QDs with various PL emission peaks.