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## Supporting information

Thermogravimetric analysis (TGA) was carried out using a Mettler Toledo TGA-SDTA851 analyzer (Switzerland) from room temperature to  $800~^{\circ}$ C in the air atmosphere at a heating rate of  $10~^{\circ}$ C/min.

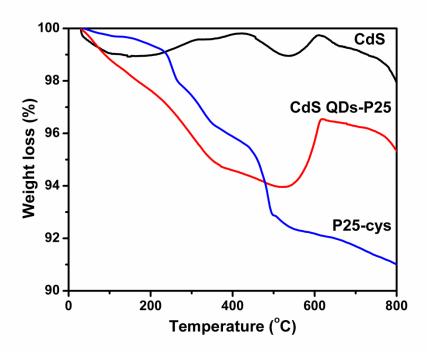


Fig. S1 TGA curves of CdS, CdS QDs-P25 and P25-cys