

Supporting information

**Distinct thermoresponsive behaviour of oligo- and poly-ethylene glycol
protected gold nanoparticles in concentrated salt solutions.**

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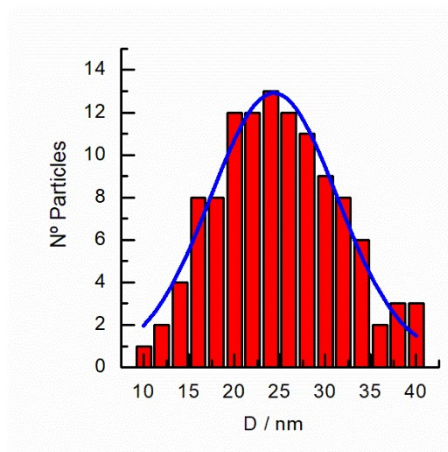
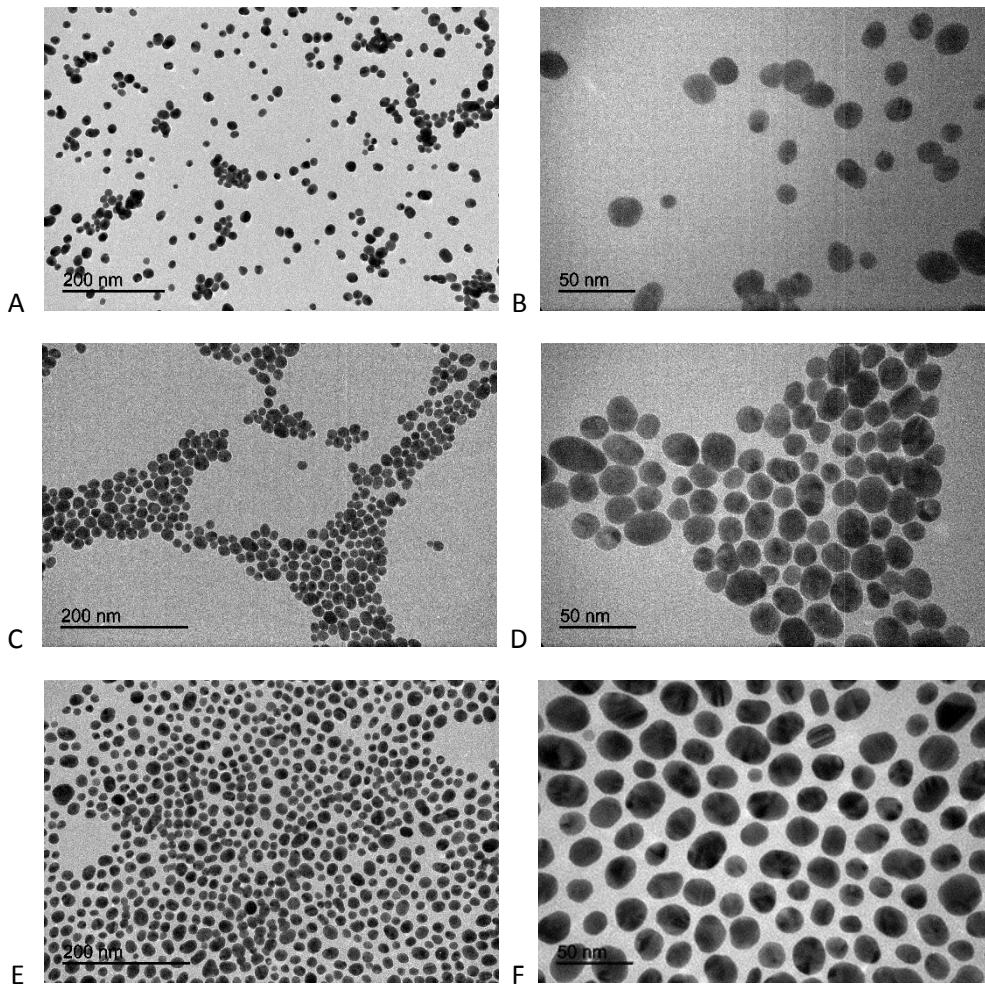


Figure S1. TEM images of AuNPs: (A, B): c-AuNPs; (C,D) EG18-AuNPs; (E, F) EG136-AuNPs. Size distribution of the AuNPs.

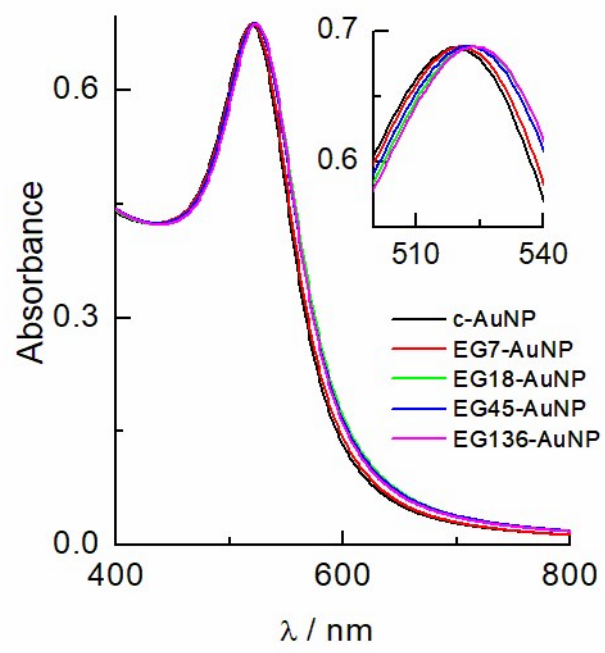


Figure S2. UV-visible spectra of AuNPs modified with EGN of different chain length.

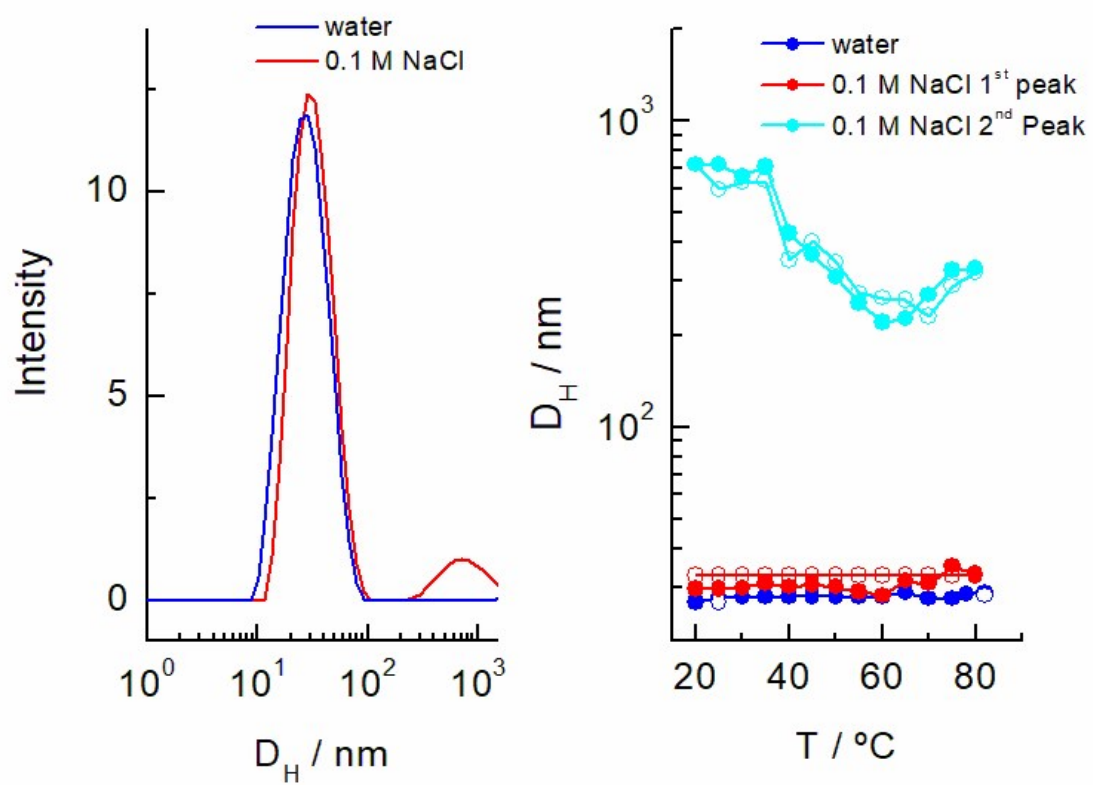


Figure S3. (A) Size distribution of EG7-AuNPs; (B) Hydrodynamic diameters of EG7-AuNPs as a function of temperature under different conditions.