

## Conjugating Curcumin to Water Soluble Polymer Stabilized Gold Nanoparticles *via* pH Responsive Succinate Linker

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### Supplementary Information

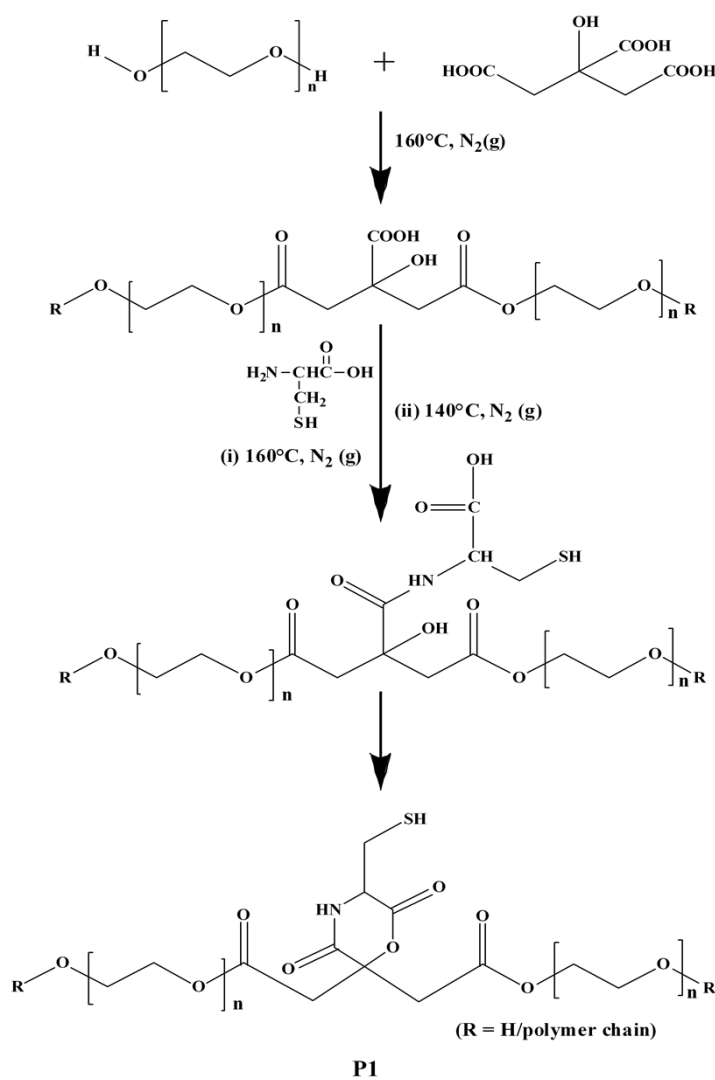
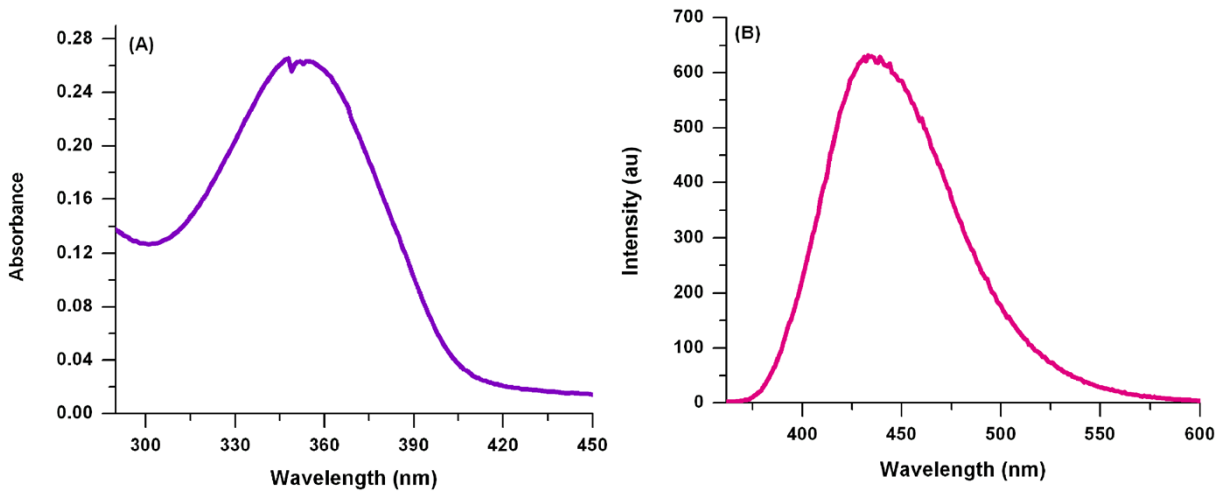


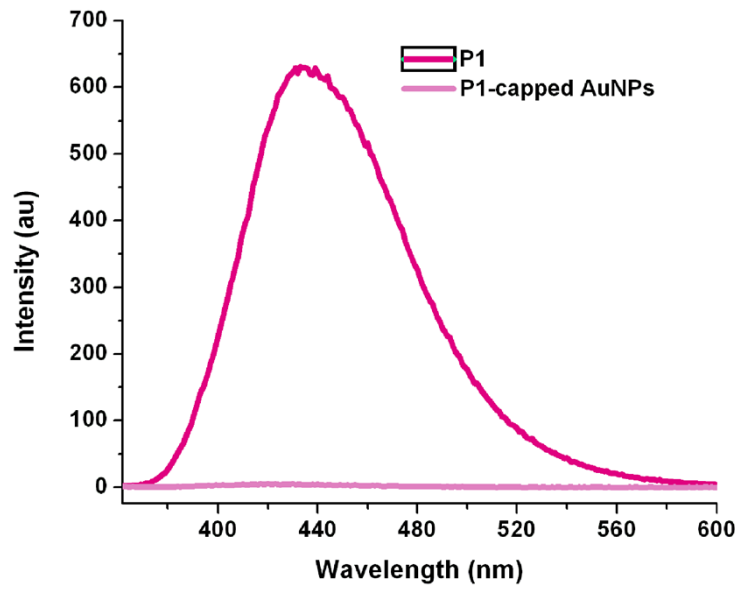
Fig. S1 Schematic presentation of the synthesis of P1.

**Table S1.** Molecular weights of P1 by GPC

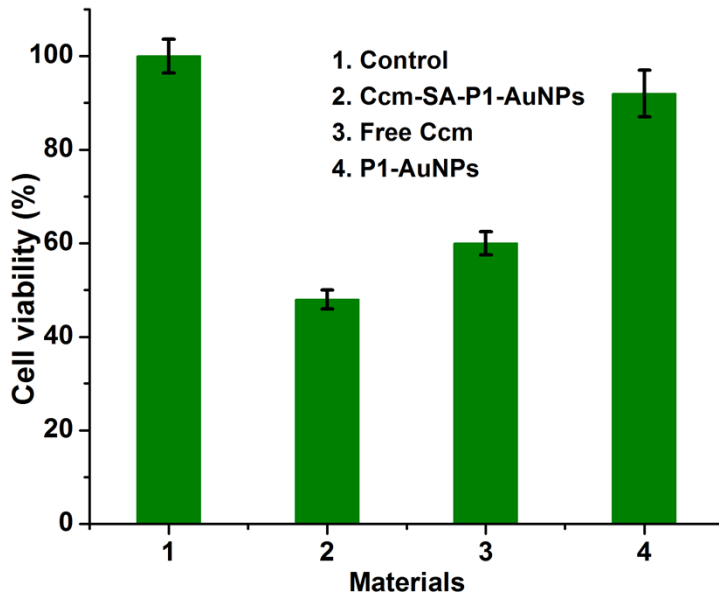
$M_n$	$M_w$	MP	PDI
1533	2174	1932	1.418



**Fig. S2** (A) UV-Vis absorption spectrum of P1 (B) Fluorescence emission spectrum of P1.



**Fig. S3** Fluorescence spectra of P1 and P1-capped AuNPs showing fluorescence quenching of P1 after conjugation onto the surface of AuNPs.



**Fig. S4.** Plot of cell viability (%) of C6 cancer cells after interaction with (1) control (medium without any AuNPs) (2) Ccm-SA-P1-AuNPs (with equivalent Ccm concentration of 15  $\mu$ M) (3) Free Ccm (15  $\mu$ M) and (4) P1-AuNPs (concentration equivalent to the concentration of Ccm-SA-P1-AuNPs).