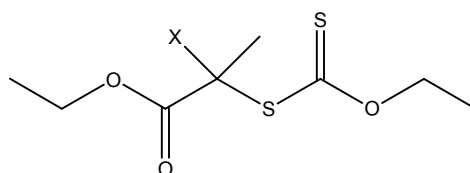


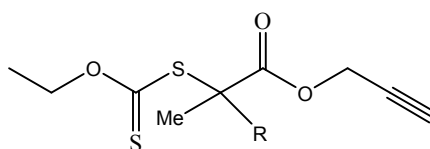
Supporting Information

Tadpole-shaped β -Cyclodextrin-tagged Poly(*N*-Vinylpyrrolidone): Synthesis, Characterization and Studies of Its Complexation with Phenolphthalein and Anti Tumor Activities

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(a) X = H (**X1**), CH₃ (**X2**)



(b) R = H, (*S*)-2-(Propynyl propionate)-(O-ethyl xanthate) (**X3**)
R = CH₃, (*S*)-2-(Propynyl isobutyrate)-(O-ethyl xanthate) (**X4**)

Scheme S1. Structures of RAFT Agents

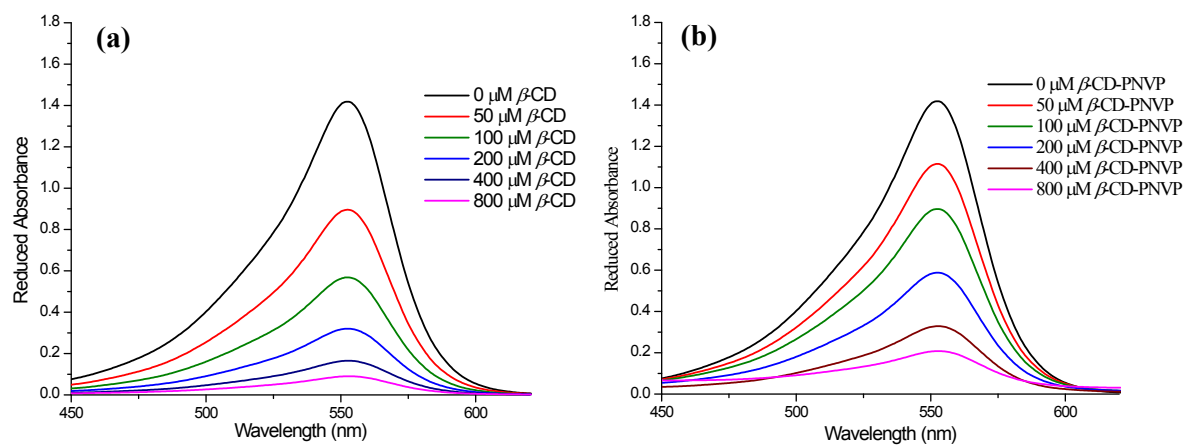


Figure S1. UV-Visible absorption spectra of buffered phenolphthalein solutions (pH 10) with different concentrations of (a) β -CD, and (b) β -CD-tagged PNVP.