RAFT polymerization mediated core-shell supramolecular assembly of PEGMA-co-Stearic acid block co-polymer for efficient anticancer drug delivery

Priyatosh Sarkar^a, Santanu Ghosh^{a,b}, Rima Saha^a, Kishor Sarkar^a*

^aGene Therapy and Tissue Engineering Lab, Department of Polymer Science and Technology, University of Calcutta, 92, A.P.C. Road, Kolkata-700009, India

^bDepartment of Materials Engineering, Indian Institute of Science, C.V. Raman Avenue, Bangalore, Karnataka- 560012, India

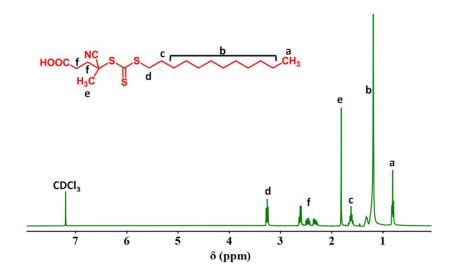


Fig S1. ¹H NMR spectra of CDSP

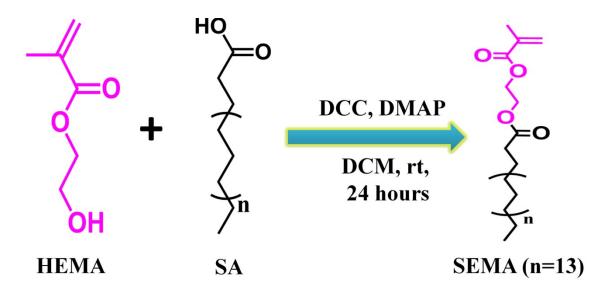


Fig S2. Synthesis scheme for SEMA monomer

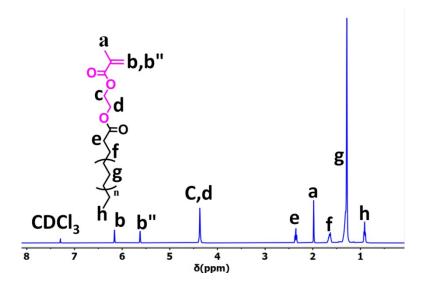


Fig S3. ¹HNMR Spectrum of SEMA monomer

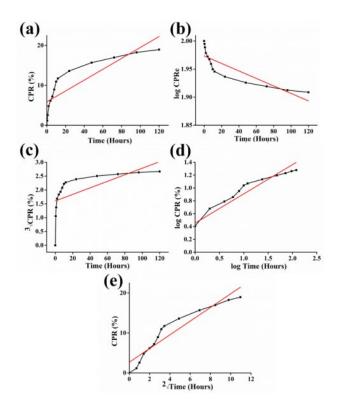


Fig S4. Different DOX release kinetics model at pH 7.4; (a) Zero order; (b) First order; (c) Hixon–Crowell; (d) Korsmeyer-Peppas; (e) Higuchi model

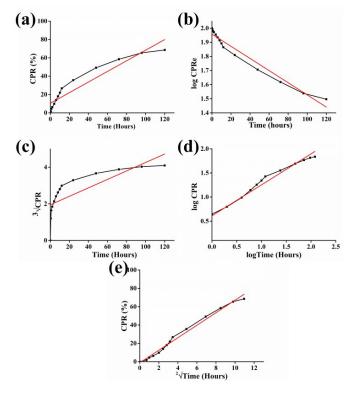


Fig S5. Different DOX release kinetics model at pH 5; (a) Zero order; (b) First order; (c) Hixon–Crowell; (d) Korsmeyer-Peppas; (e) Higuchi

Table S1.IC₅₀ value of DOX and DOX loaded BCPs

	IC_{50} (µg/ml)
Free DOX	3.759 ± 0.162
BCP10-DOX	7.374 ± 0.260
BCP25-DOX	3.215±0.171
BCP50-DOX	1.748 ± 0.103