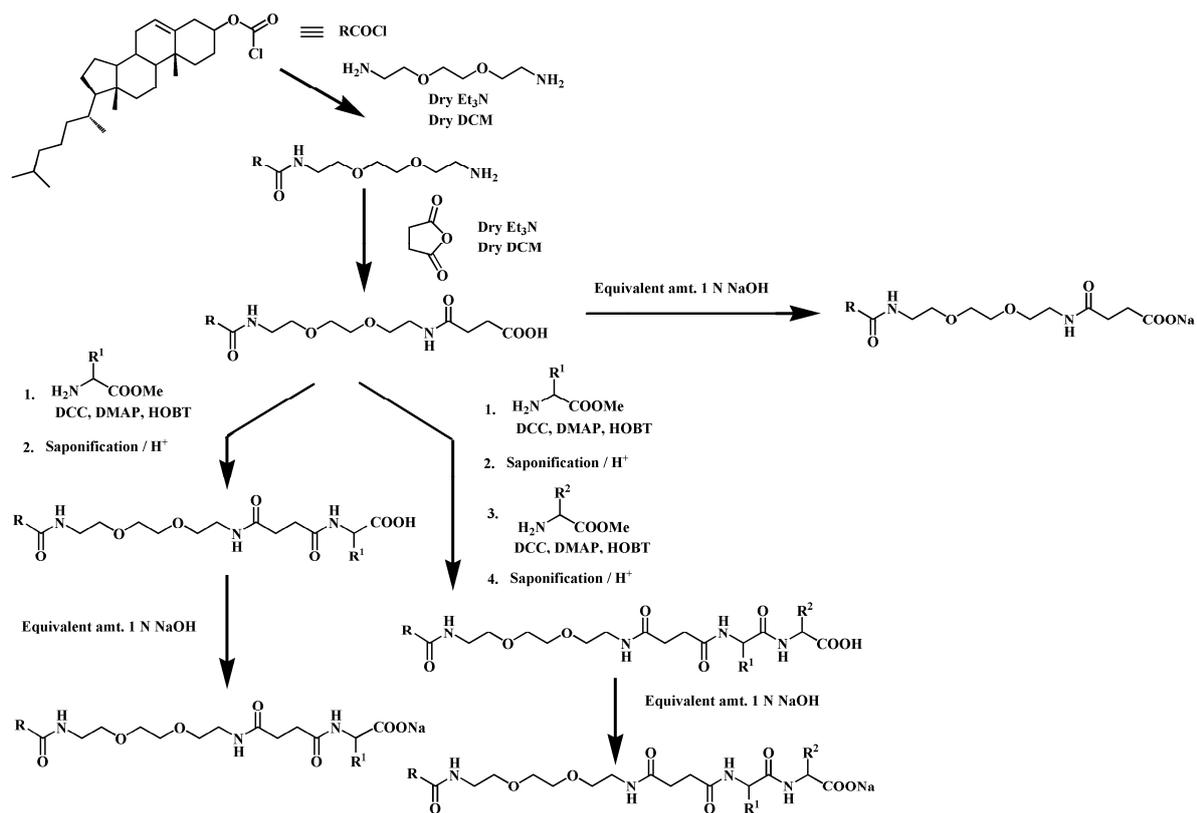


Electronic Supplementary Information (ESI)

pH-responsive reversible dispersion of biocompatible SWNT/Graphene-amphiphile hybrids

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Scheme S1. Synthetic scheme for amphiphile 1-7.

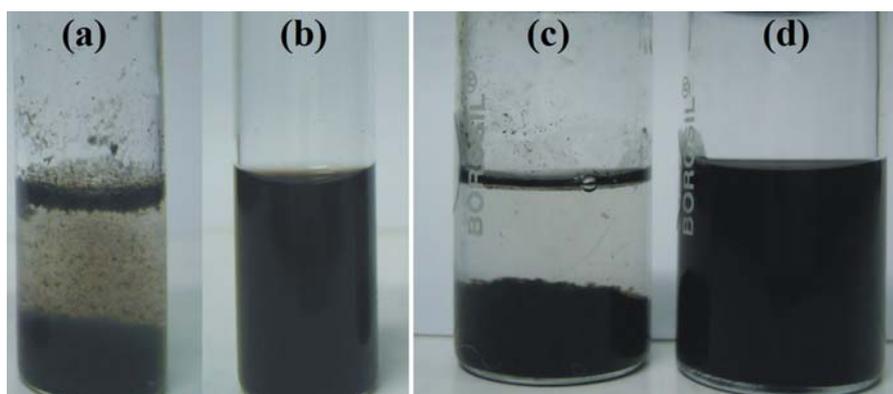


Fig S1. (a) SWNT in water, (b) in presence of amphiphile **6**; (c) rGO in water and (d) in presence of amphiphile **6**.

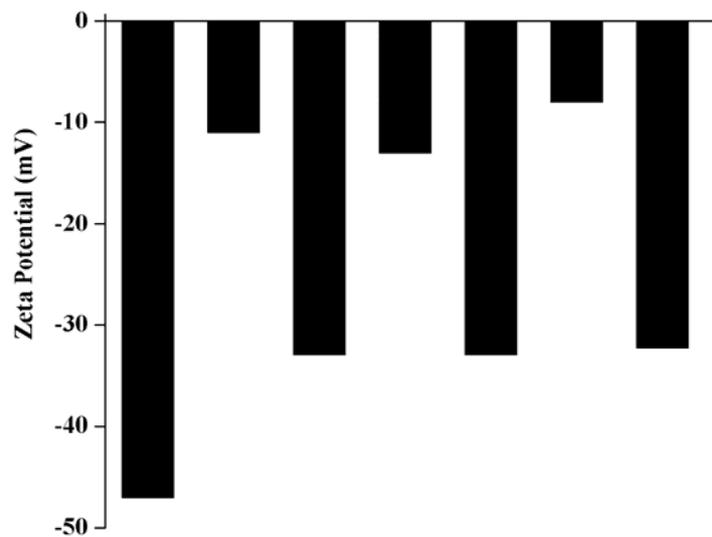


Fig S2. Zeta potential values of rGO-6 dispersion on subsequent treatments with HCl and NaOH.

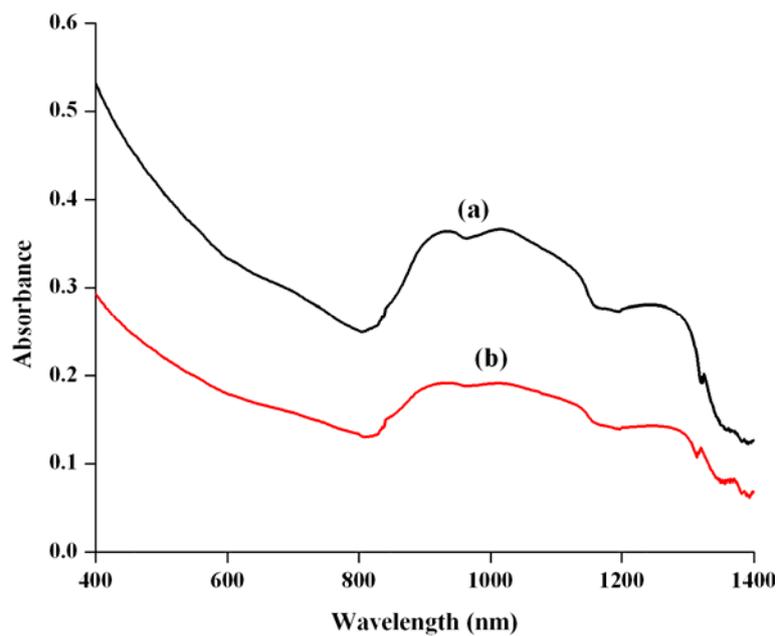


Fig. S3. UV-Vis-NIR spectra of (a) SWNT-5 and (b) SWNT-5 after acid-base treatment.

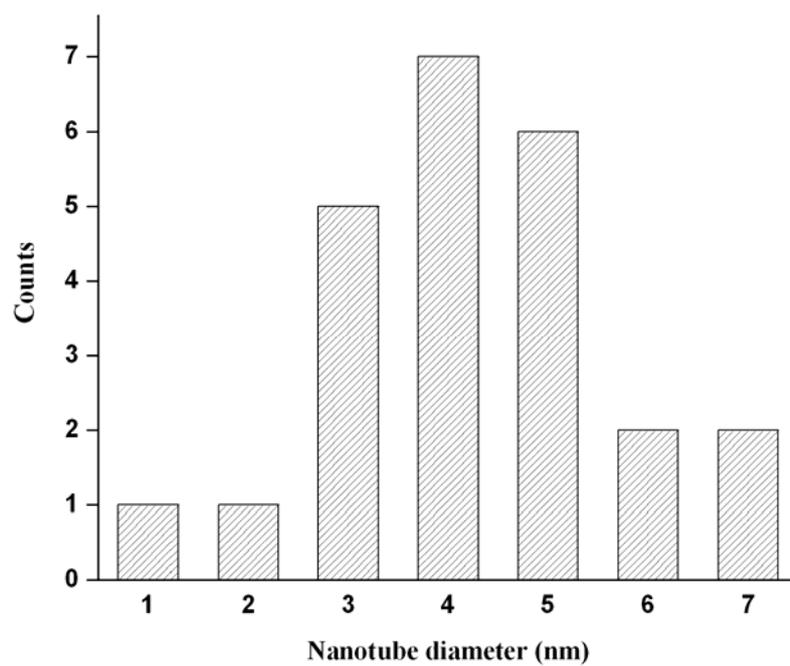


Fig. S4. Histogram obtained from AFM images of SWNT-6 showing average diameter of nanotubes

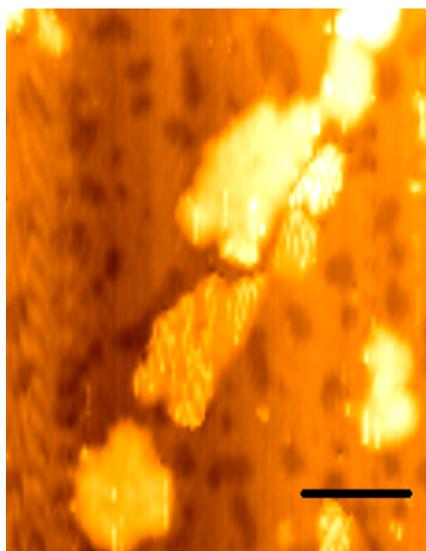


Fig. S5. AFM image of rGO-6; the bar represents 200 nm

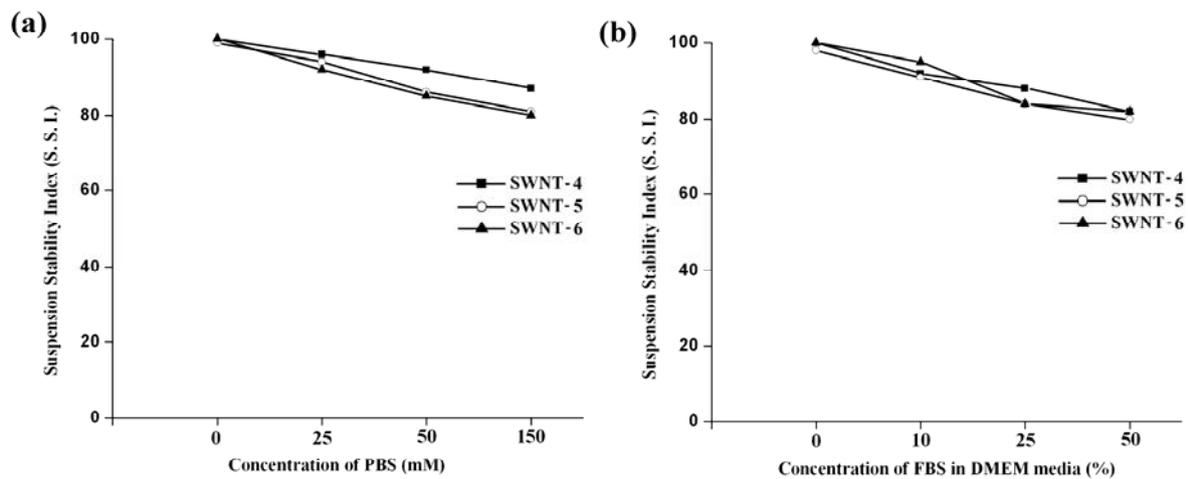


Fig. S6. Suspension stability index (SSI) of amphiphiles **4-6** at $50 \mu\text{g mL}^{-1}$ with (a) varying concentration of PBS and (b) varying concentration of FBS in DMEM cell culture media.

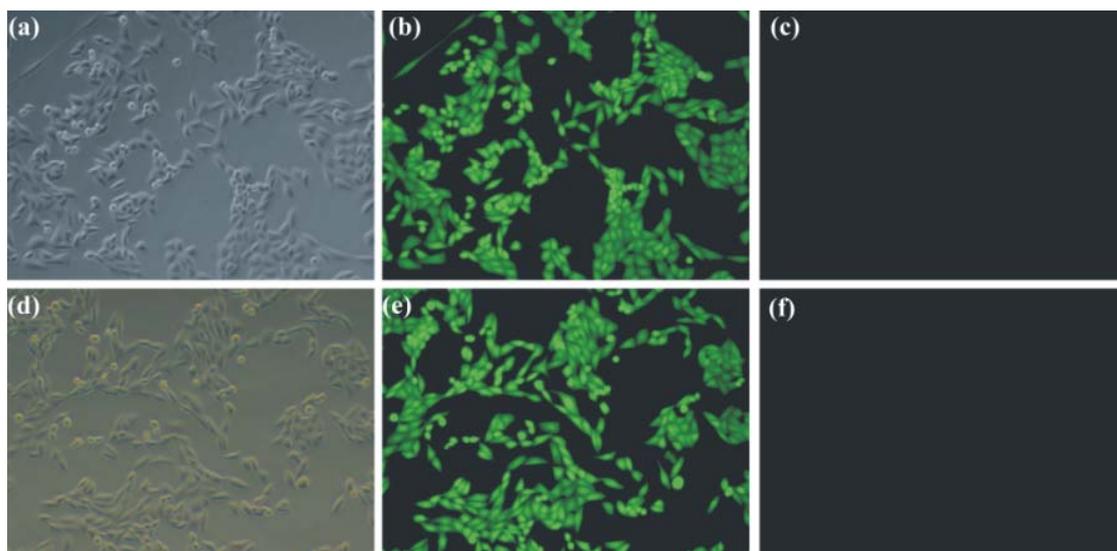


Fig. S7. (a) Bright field images of CHO cells incubated with $25 \mu\text{g mL}^{-1}$ of SWNT-6 for 24 h, (b) and (c) corresponding fluorescence images after treating with Live/Dead Viability kit; (d)-(f) similar images of CHO cells incubated with rGO-6