

## Supporting Information

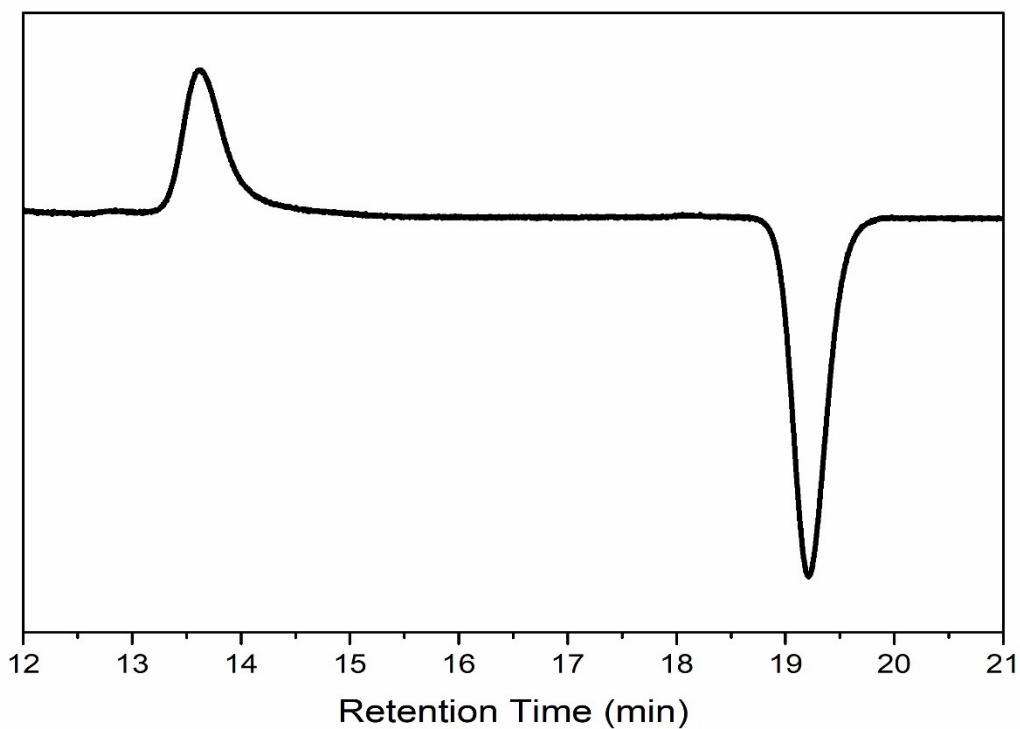


Fig. S1. GPC spectrum of mPEG-SS-PSI.

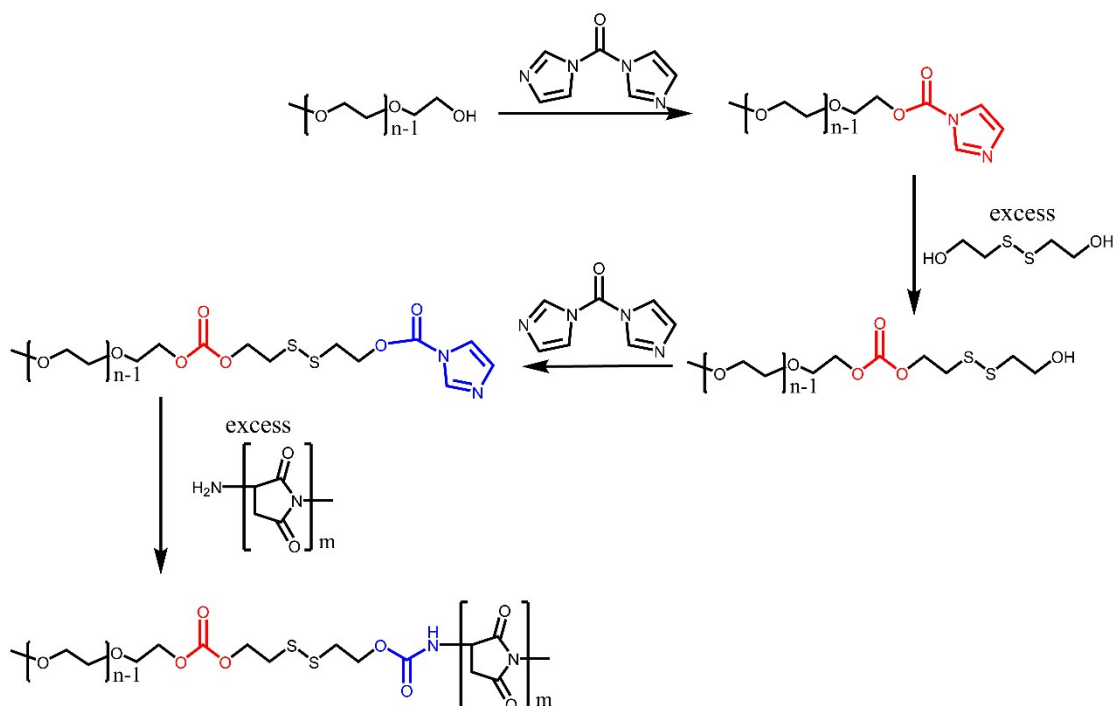


Fig. S2. The detailed synthesis route of mPEG-SS-PSI.

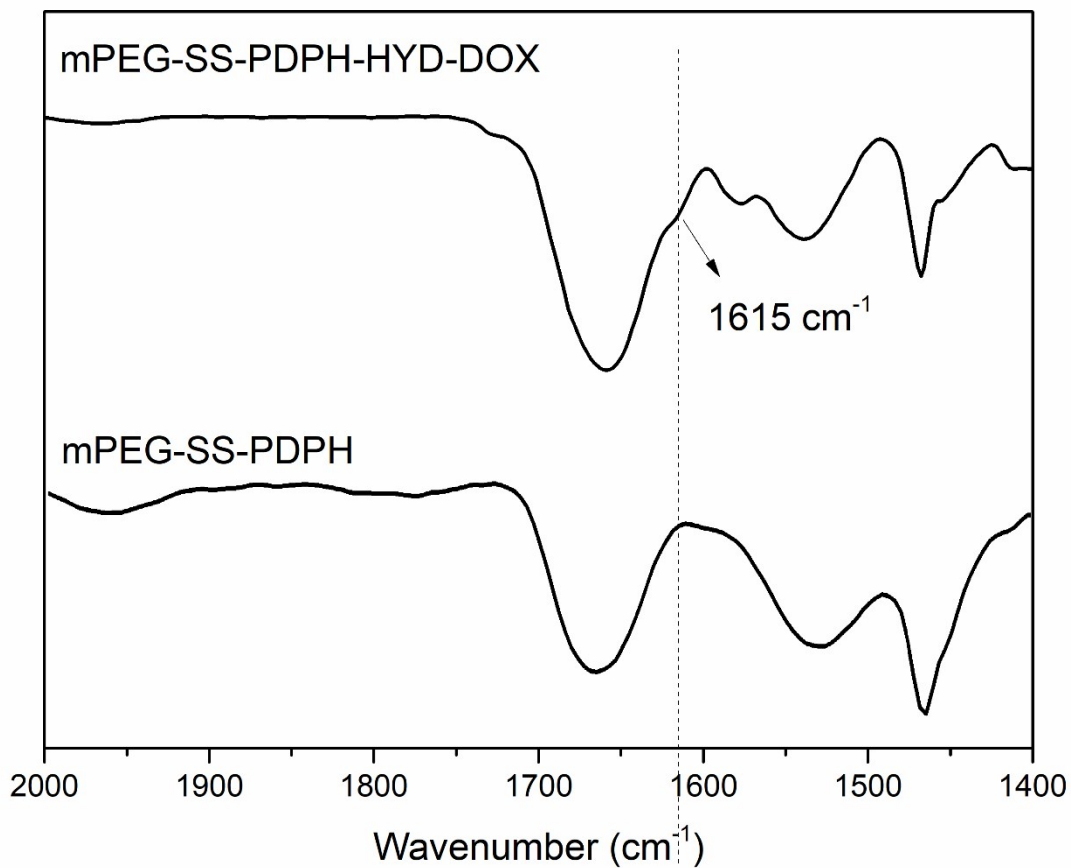


Fig. S3. FT-IR spectra of mPEG-SS-PDPH-hyd-DOX and mPEG-SS-PDPH. The peak at 1615 cm<sup>-1</sup> in the FT-IR spectrum of mPEG-SS-PDPH-hyd-DOX, corresponding to the stretching vibration of C=N in the hydrazone bonds, suggested a successful conjugation of DOX and mPEG-SS-PDPH.