

Supporting Information

Thioether-based poly(2-oxazoline)s: From optimized synthesis to advanced ROS-responsive nanomaterials

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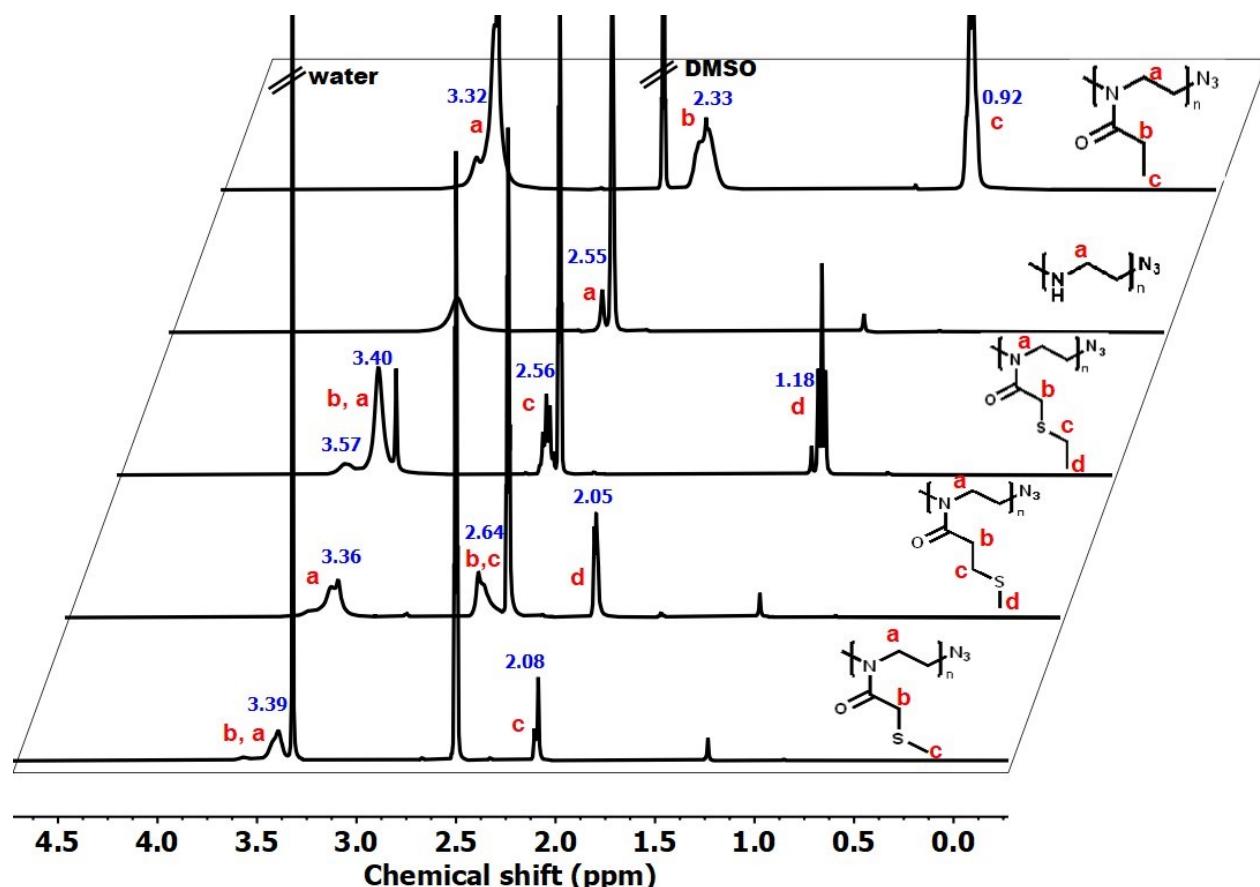


Figure S1. ¹H NMR spectra of PEtOx, PEI, PMTMeOx, PMTEtOx, and PETMeOx in DMSO-*d*₆.

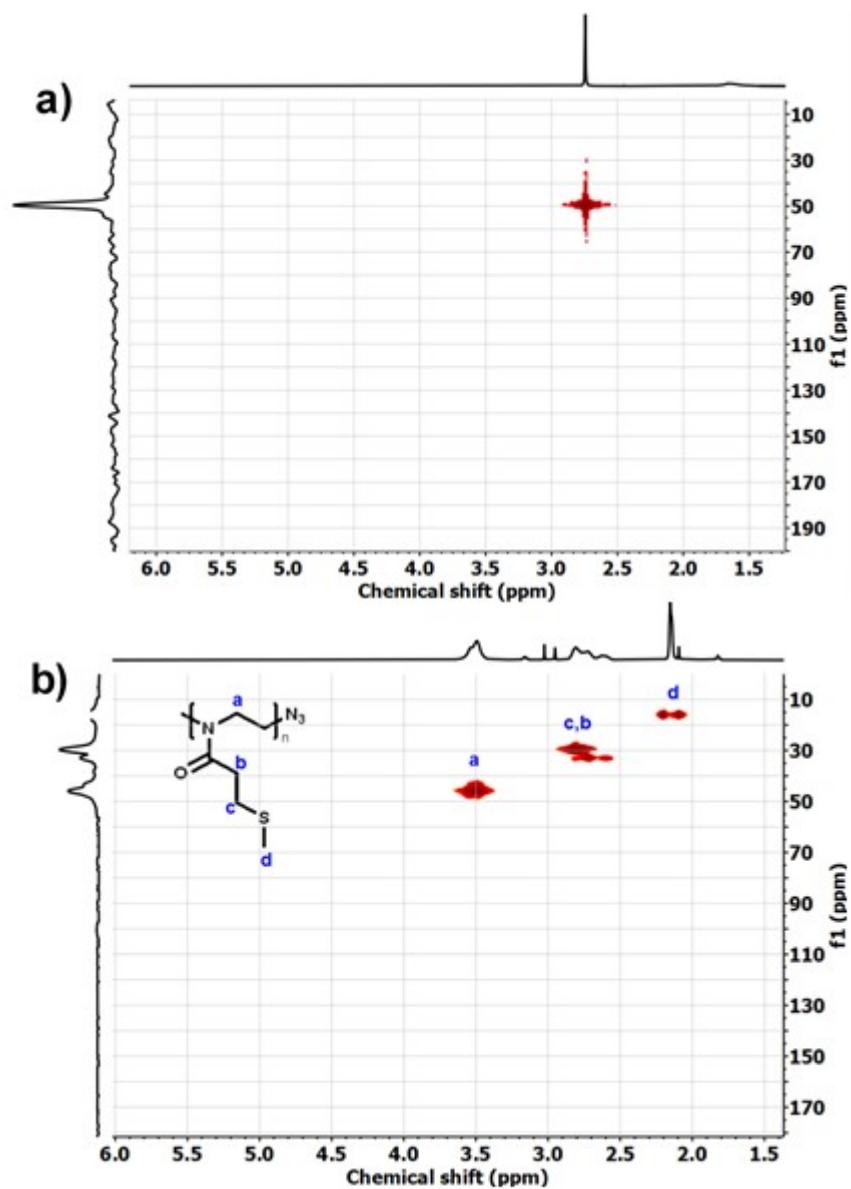


Figure S2. 2D HSQC-NMR spectra of a) PEI and b) PMTEtOx in CDCl₃.

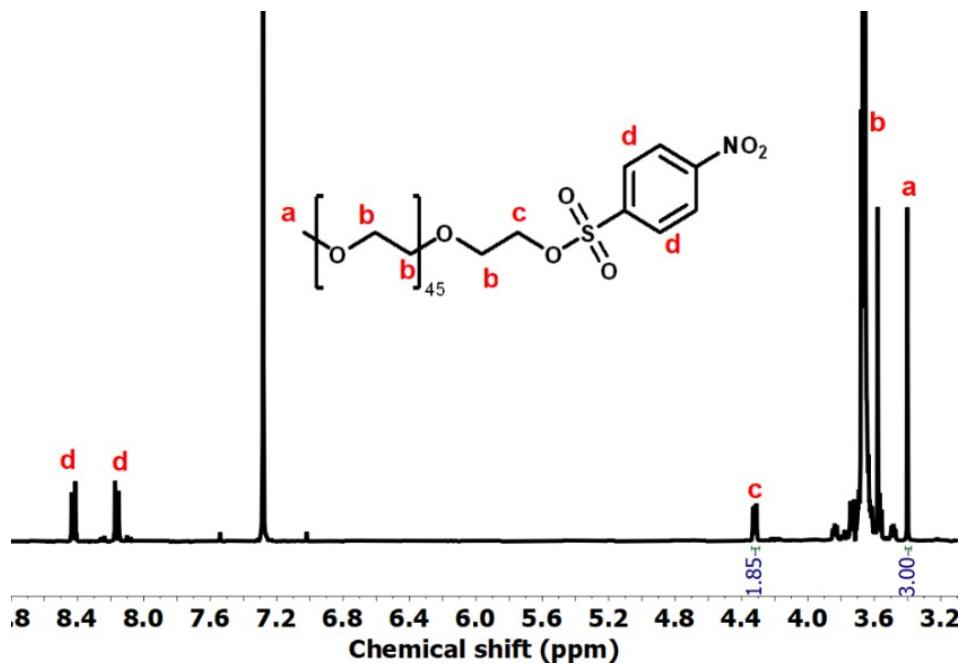


Figure S3. Representative ^1H NMR (CDCl_3) of PEG-ONs.

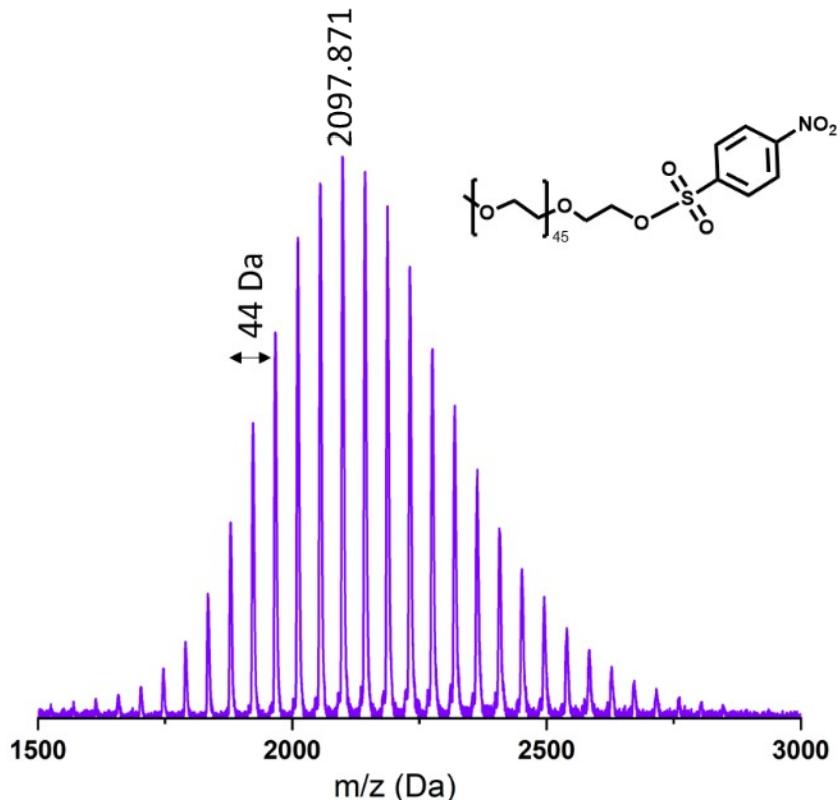


Figure S4. MALDI-TOF spectra of PEG-ONs.

Table S1. Characteristics PEG-*b*-PEtOx copolymers.

Polymer	DP (Target) ^a	DP (Measured) ^a	M_w (kDa) ^c	M_n (kDa) ^c	D^c
PEG ₄₅ - <i>b</i> -PEtOx ₃₀	30	33	10.4	9.1	1.1
PEG ₄₅ - <i>b</i> -PEtOx ₆₀	60	58	13.9	12.1	1.1
PEG ₄₅ - <i>b</i> -PEtOx ₁₀₀	100	71	20.5	17.3	1.2

^a DP of PEtOx block determined by ¹H NMR in CD₃OD. ^c Determined by SEC in DMAc/LiCl.

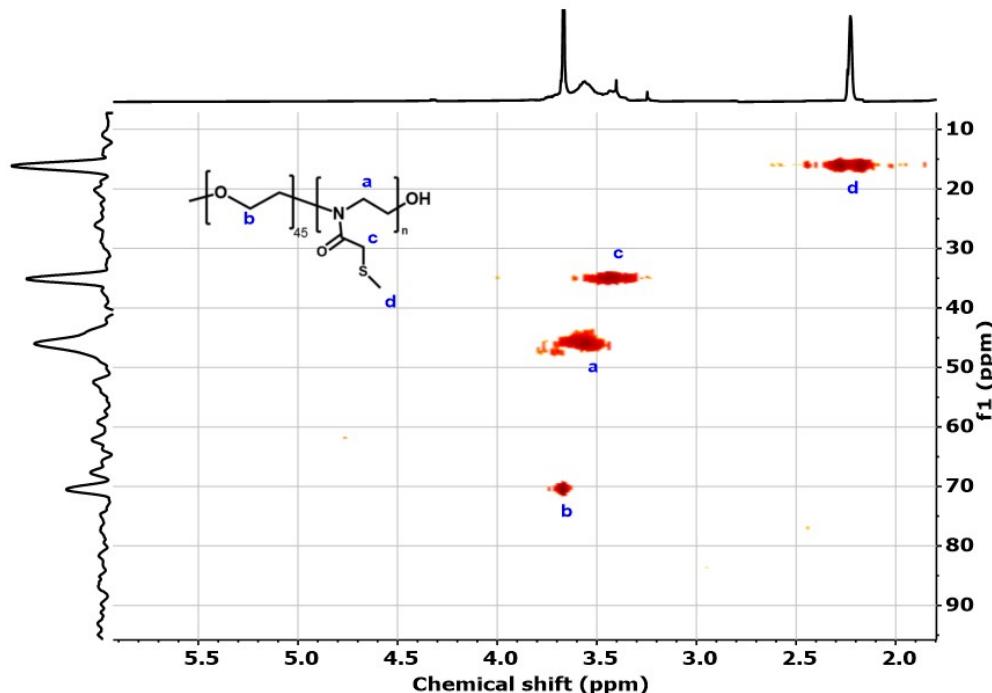


Figure S5. 2D HSQC-NMR spectrum of PEG₄₅-*b*-PMTMeOx₃₀ in CDCl₃.

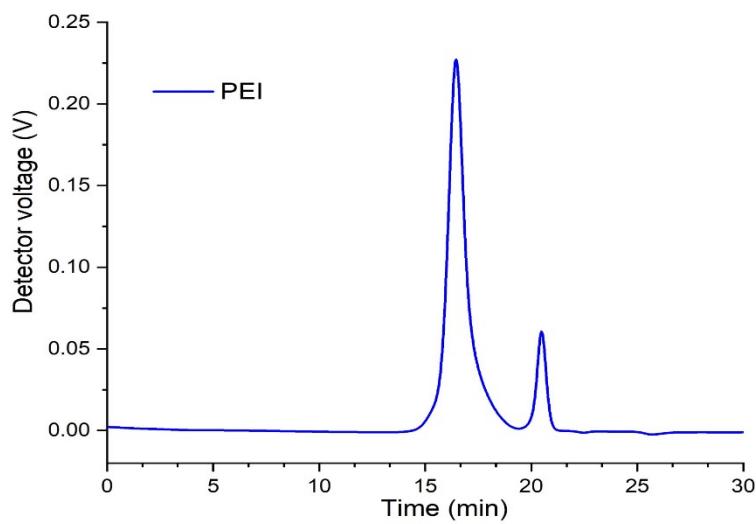


Figure S6. SEC trace of PEI (DP 100).