

Electronic Supplementary Information

Synthesis and properties of low molecular weight

PEI-based-lipopolymers for delivery of DNA

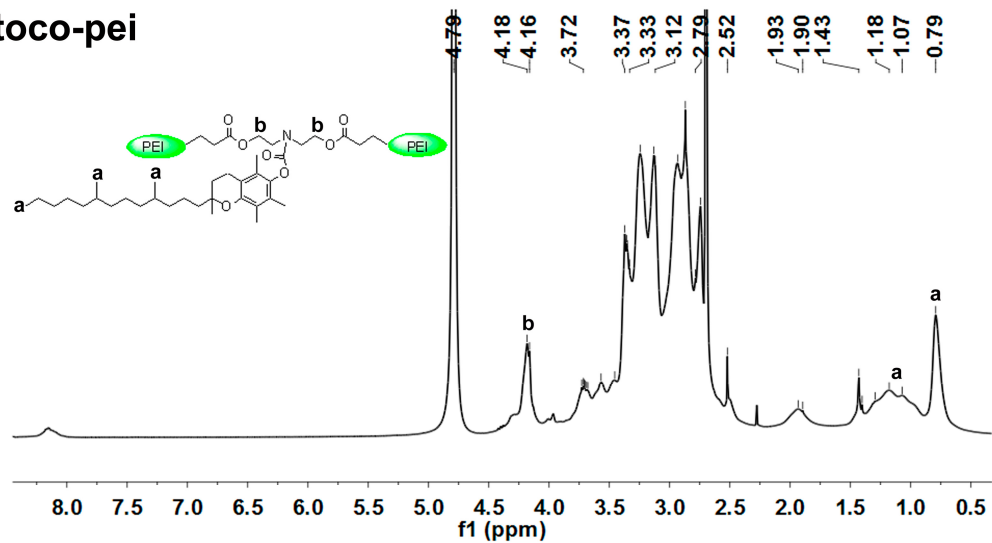
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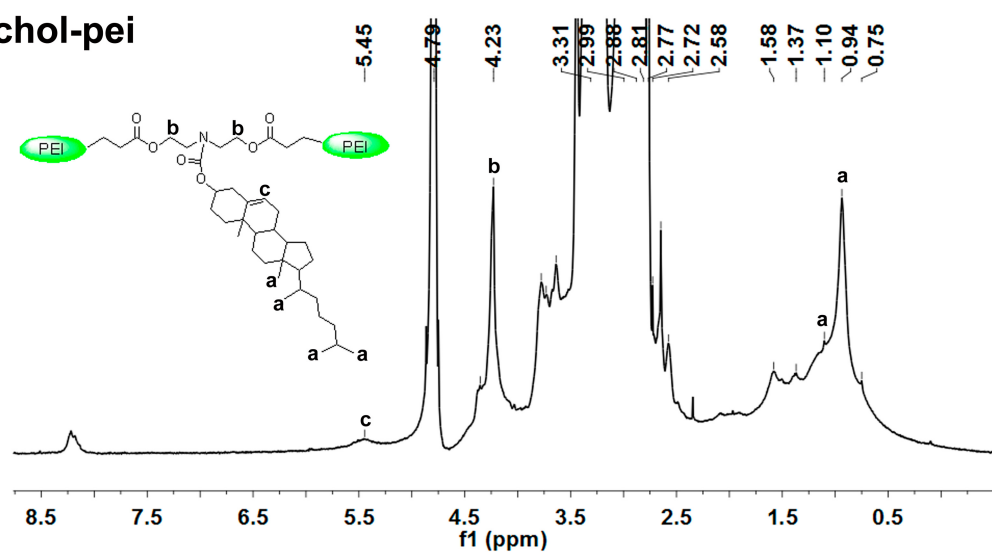
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toco-pe1



chol-pe1



dios-pe1

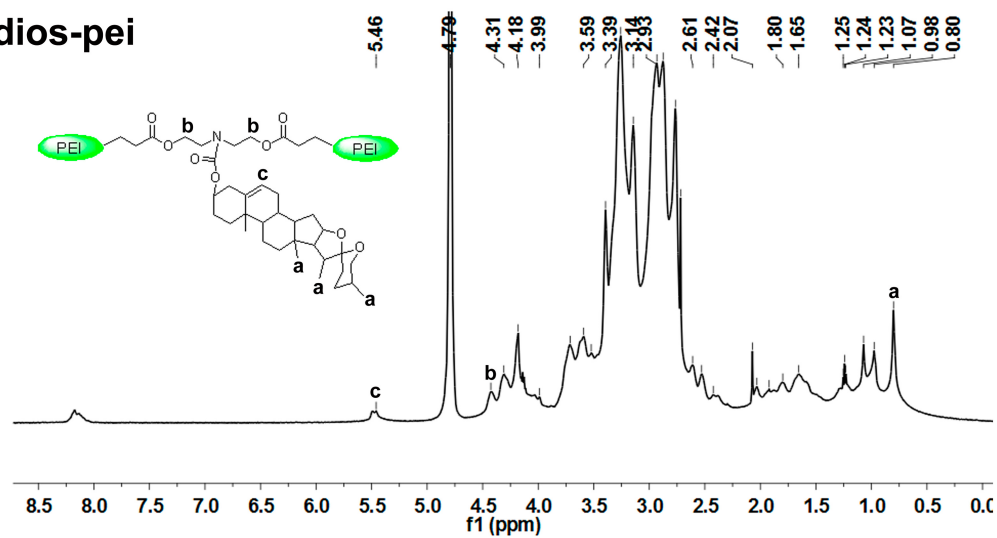


Fig. S1. ^1H NMR spectra of the three lipopolymers in D_2O .

09:10:36

140109_XMM_20 15 (0.257) AM (Cen,4, 80.00, Ar,10000.0,0.00,0.70); Sm (SG, 2x3.00); Cm (4:36)

09-Jan-2014

TOF MS ES+
4.03e4

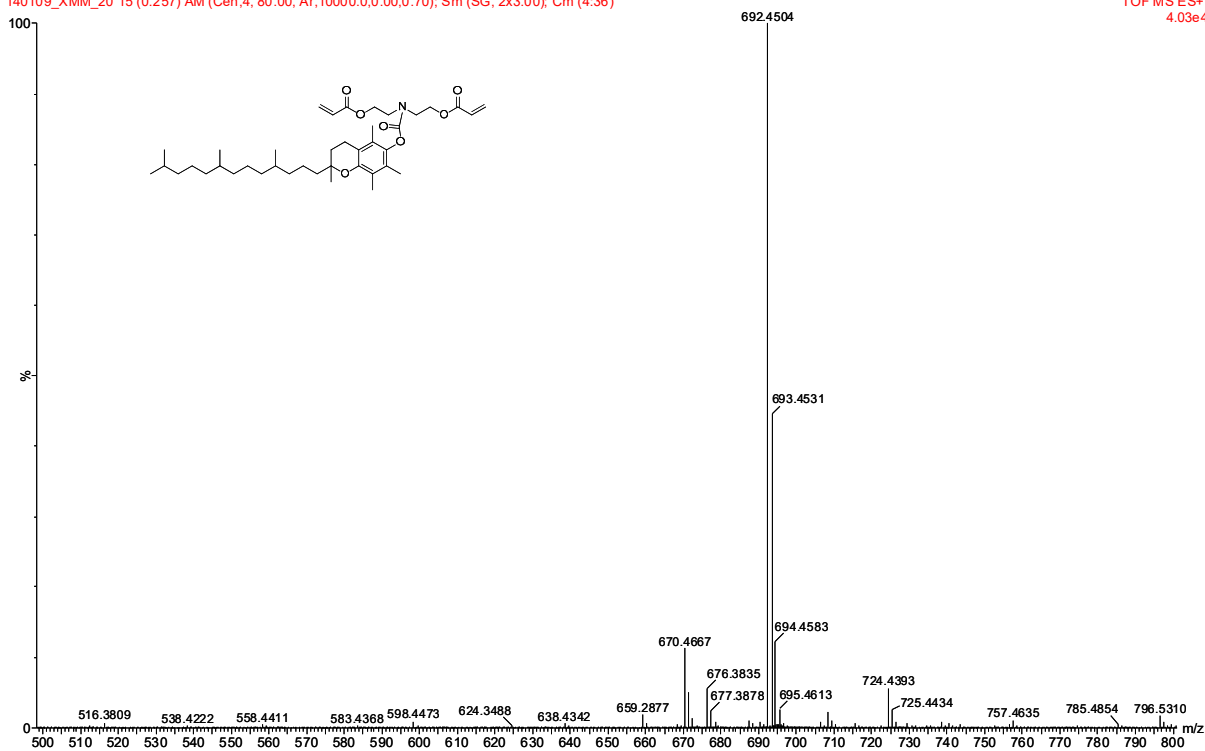


Fig. S4. HRMS (ESI) of 6a.

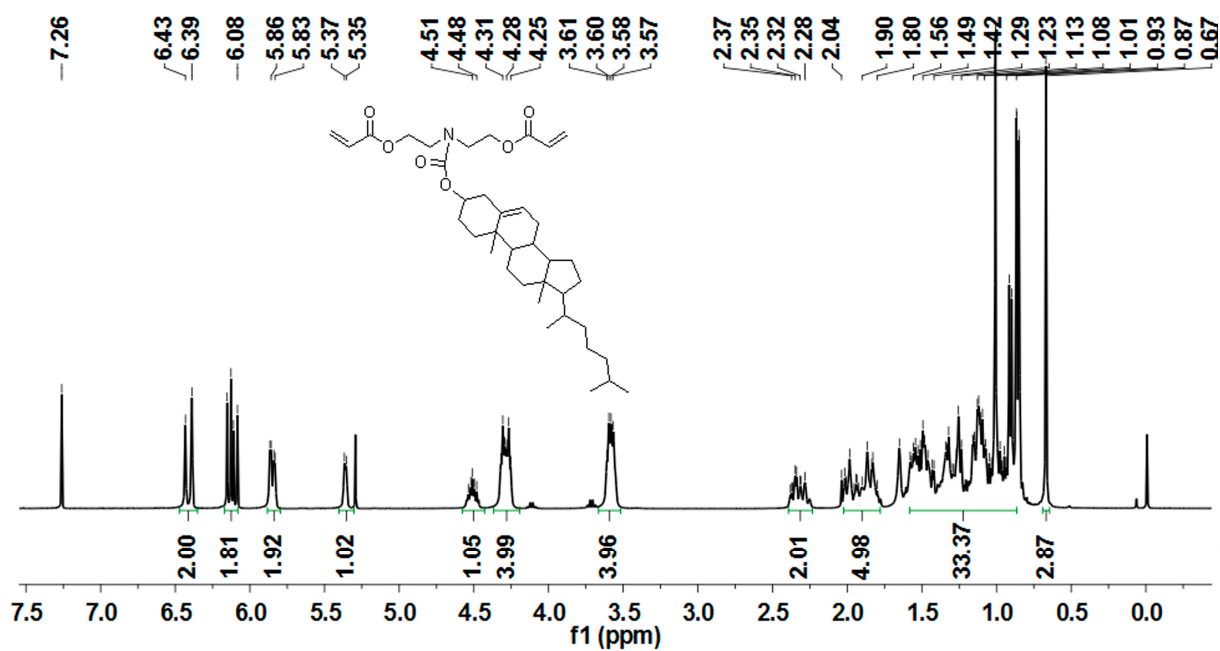


Fig. S5. ^1H NMR of 6b.

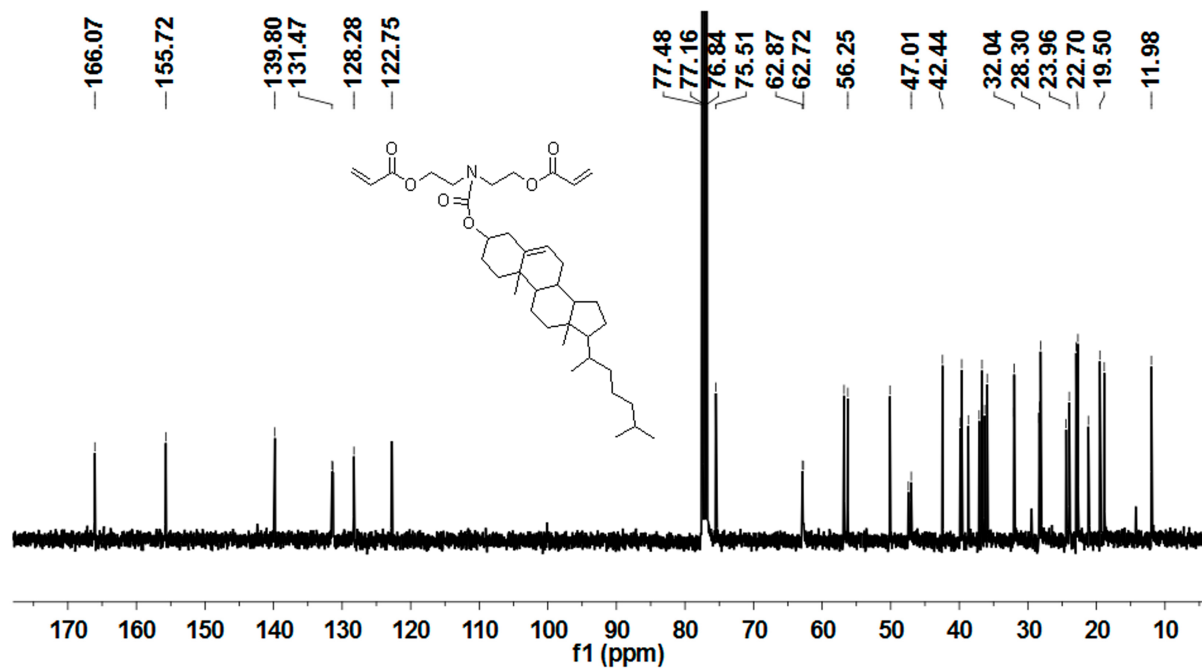


Fig. S6. ¹³C NMR of 6b.

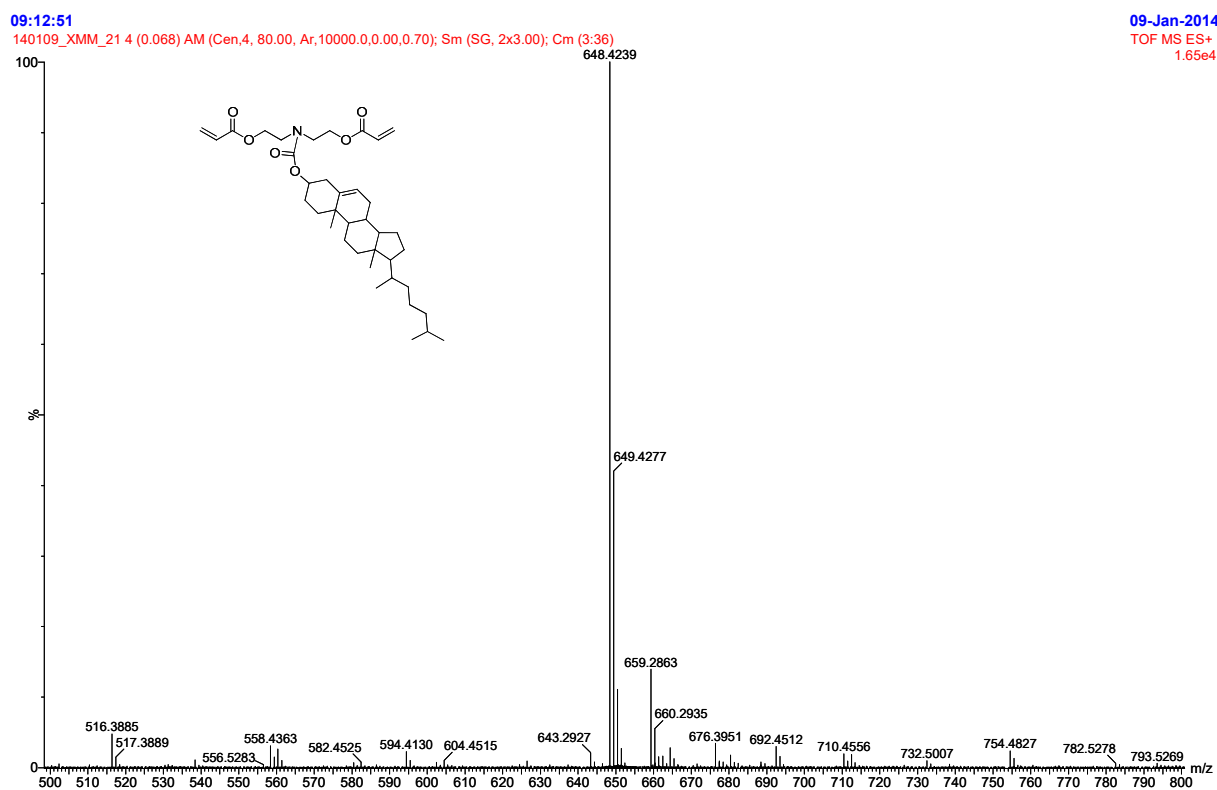


Fig. S7. HRMS (ESI) of 6b.

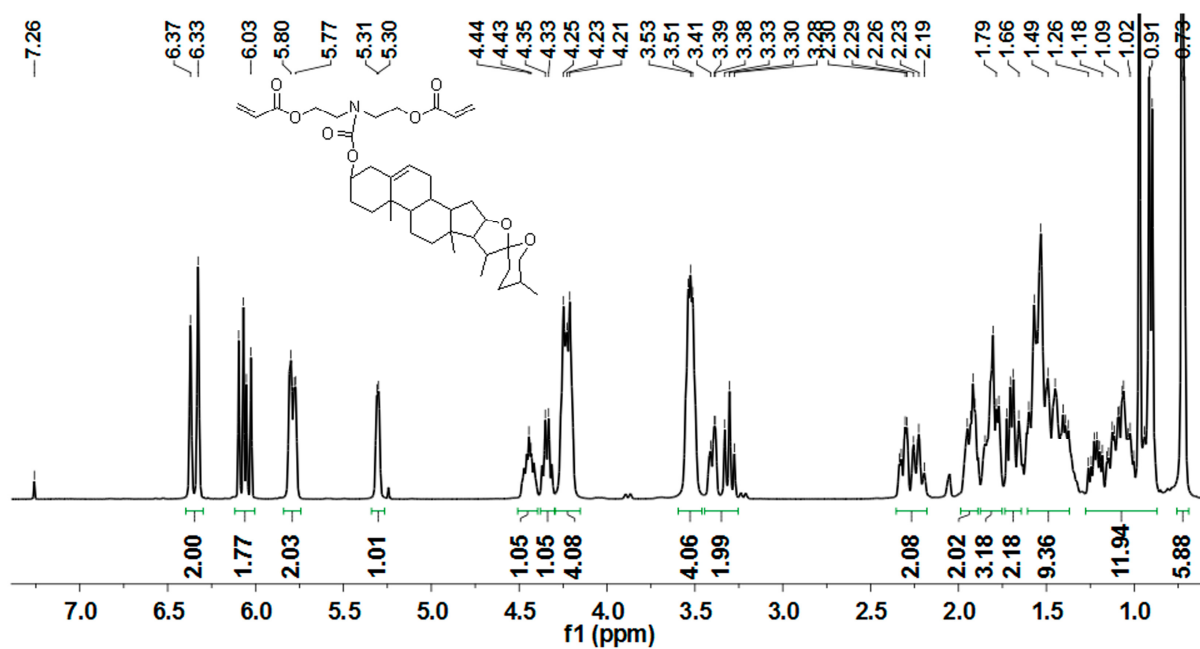


Fig. S8. ¹H NMR of 6c.

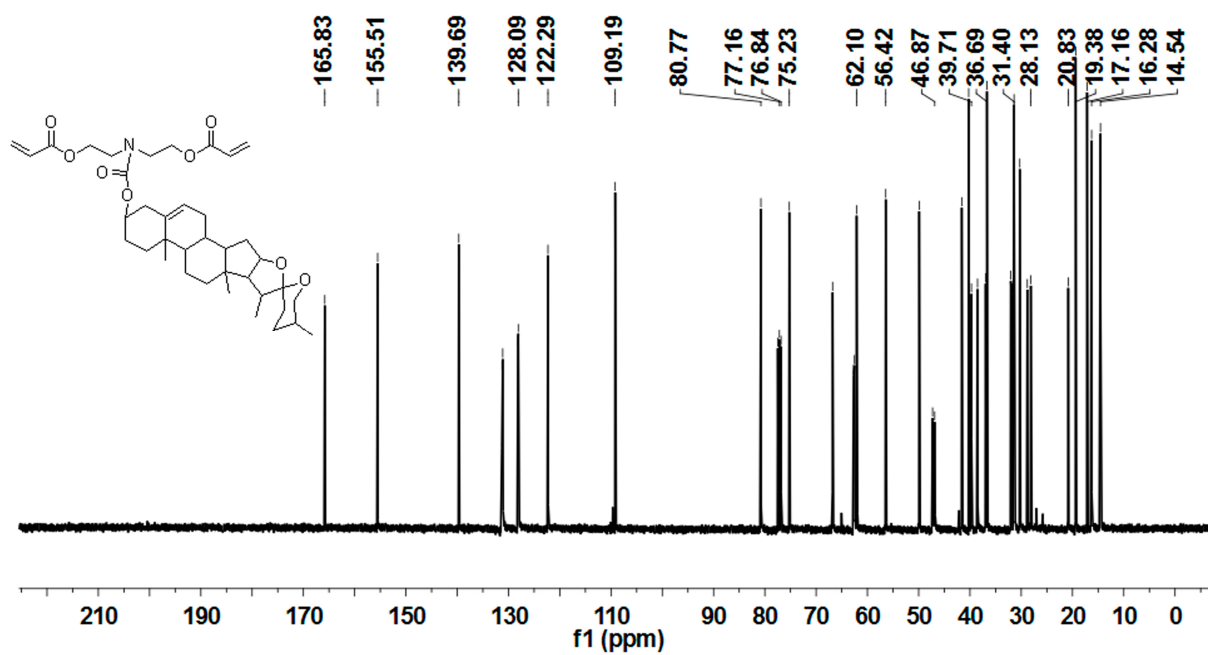
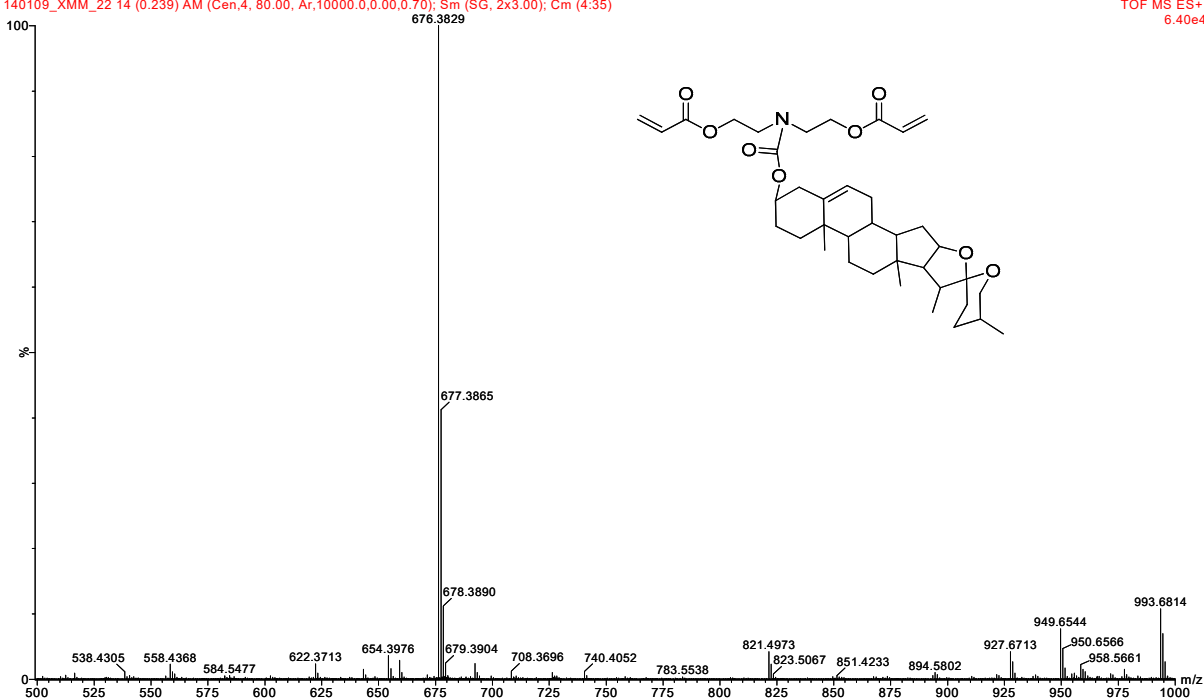
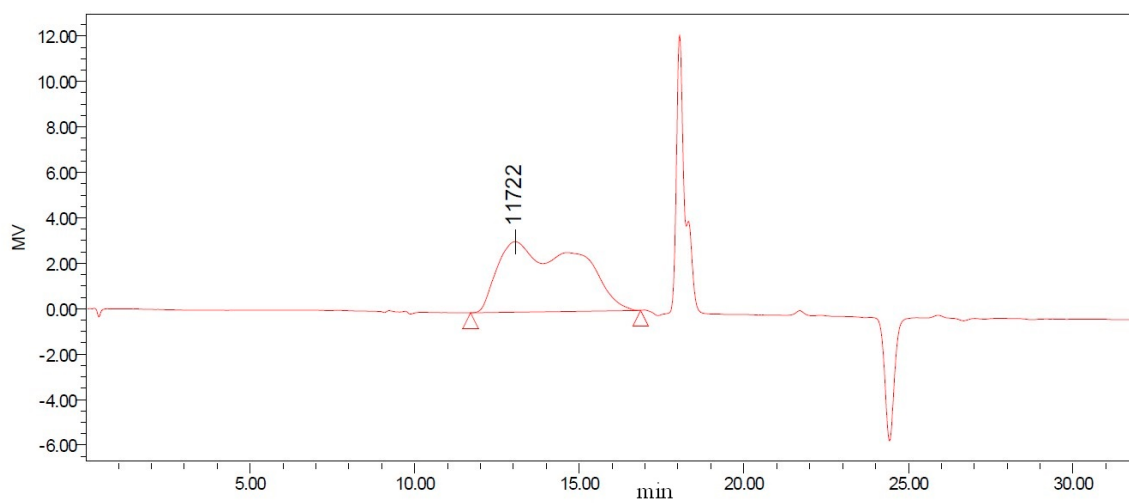


Fig. S9. ¹³C NMR of 6c.

09:06:20

140109_XMM_22 14 (0.239) AM (Cen,4, 80.00, Ar,10000.0,0.00,0.70); Sm (SG, 2x3.00); Cm (4:35)

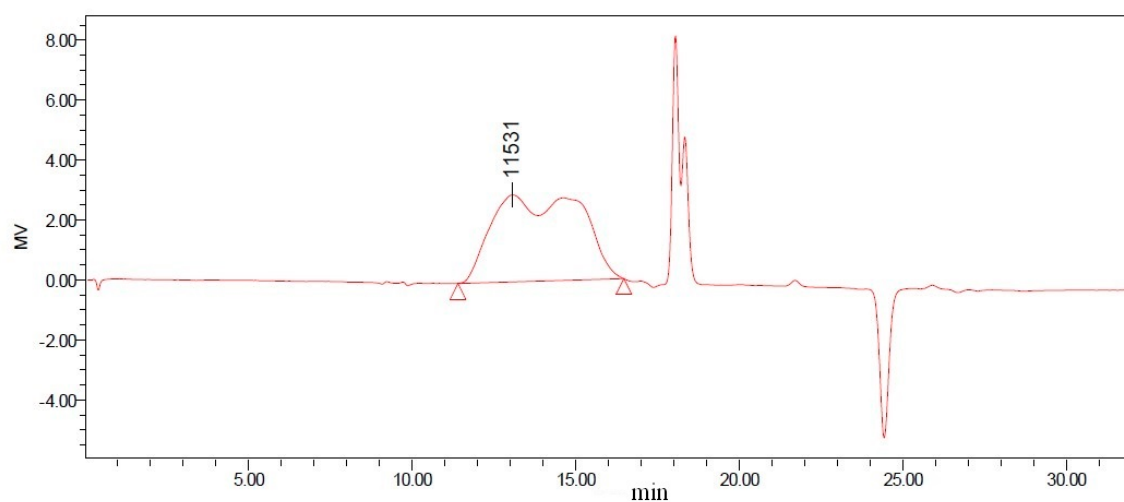
09-Jan-2014

TOF MS ES+
6.40e4Fig. S10. HRMS (ESI) of **6c**.

GPC result

Distribution	Mn Da	Mw Da	MP Da	Mz Da	Mz+1 Da	PDI
1	4704	7880	11722	12302	16334	1.675376

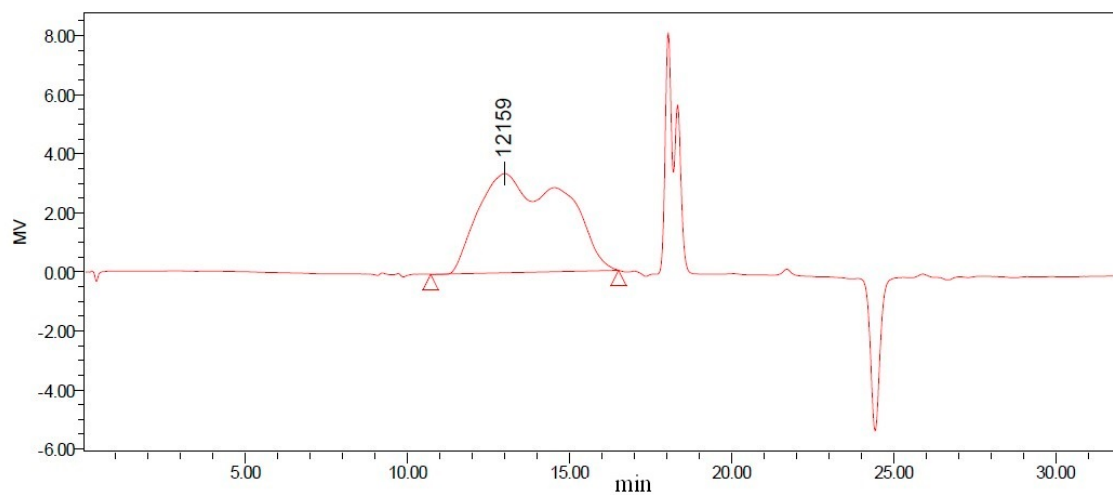
Fig. S11. The GPC chromatograms of **6a**.



GPC result

	Distribution	Mn Da	Mw Da	MP Da	Mz Da	Mz+1 Da	PDI
1		5008	8974	11531	15701	22838	1.791719

Fig. S12. The GPC chromatograms of **6b**.



GPC result

	Distribution	Mn Da	Mw Da	MP Da	Mz Da	Mz+1 Da	PDI
1		5621	10985	12159	20476	30565	1.954375

Fig. S13. The GPC chromatograms of **6c**.