Electronic Supplementary Material (ESI) for RSC Advances.
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Supplementary Materials:

Polymeric nano-vesicles via intermolecular action to load and orally deliver insulin with enhanced hypoglycemic effect

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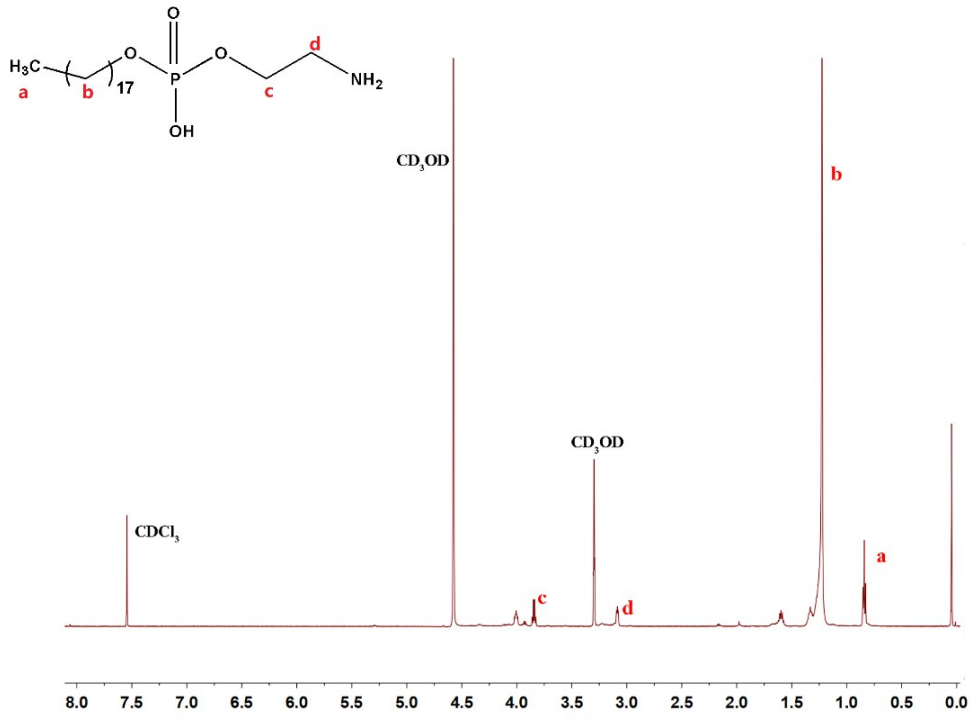

Fig. S1 Characterization of octadecylphosphoethanolamine (OPA) by ^{1}H-NMR spectra.

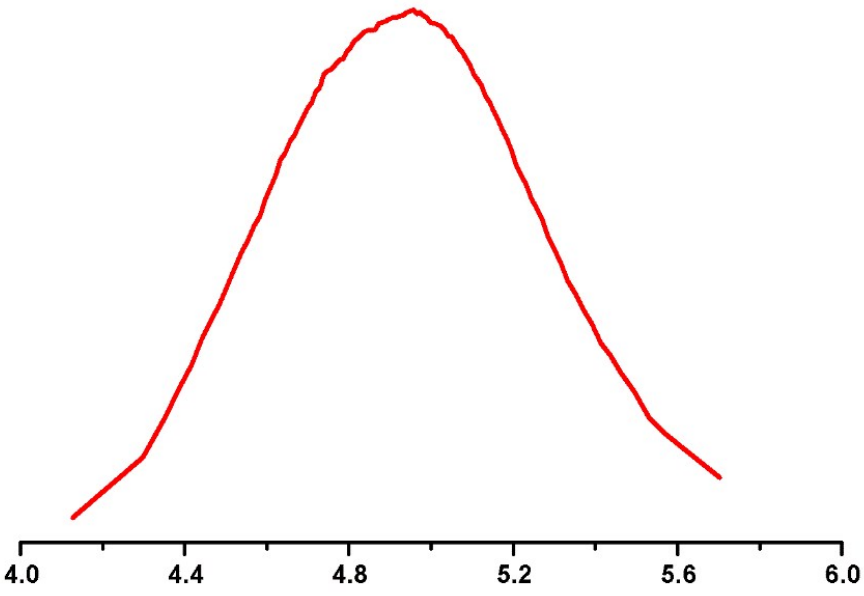

Fig. S2 GPC spectrum of PEOP.

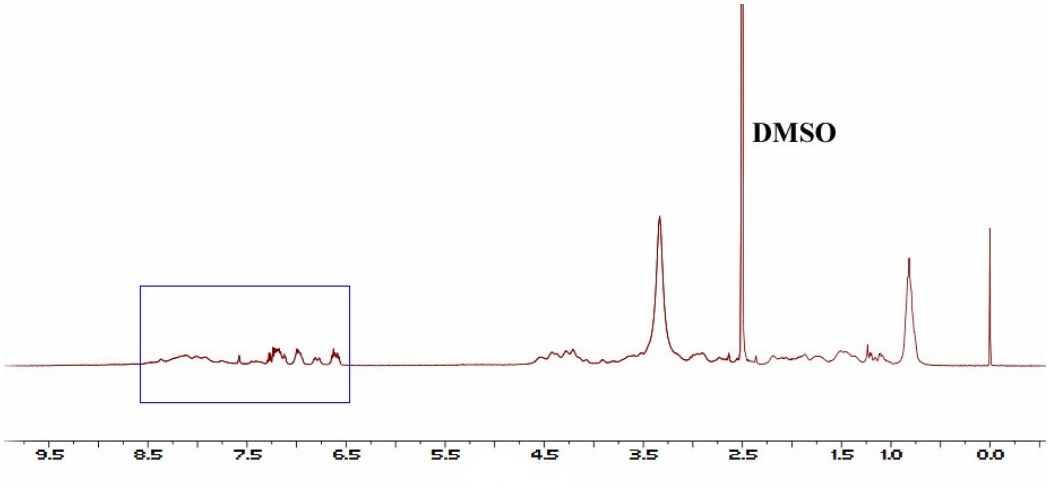

Fig. S3 ^{1}H NMR spectrum of Insulin.

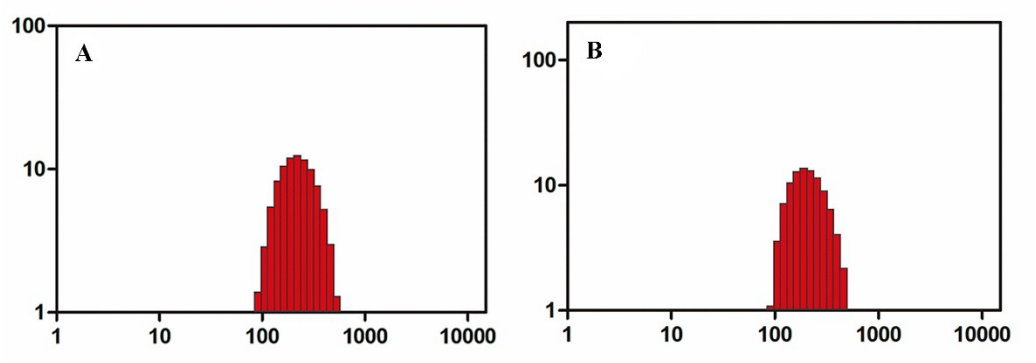

Fig. S4 Size distribution of (A) blank PEOP vesicles, (B) insulin-PEOP vesicles.

Table S1. The changes of TEER of model cell monolayers.

Sample	TEER ($\Omega \cdot cm^2$)	
	0 h	2 h
Free FITC-INS	327 ± 18	277 ± 5
FITC-INS-PEOP vesicles	304 ± 5	280 ± 7