Supplementary Information

for

"Interaction of phospholipid vesicles with gemini surfactants of different lysine spacer lengths"

Na Zhang,[†,‡] Ruilian Qi, [†,‡] Haofei Li, [†,‡] Bo Guan, [§] Yang Liu, [§] Yuchun Han,[,†] and Yilin Wang[*,†,‡]*

[†]Beijing National Laboratory for Molecular Science, CAS Key Laboratory of Colloid, Interface and Chemical Thermodynamics, CAS Research/Education Center for Excellence in Molecular Sciences, and Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China.

[‡]University of Chinese Academy of Sciences, Beijing 100049, China.

[§]Analysis and Test Center, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China.

Supplementary figures

Fig. S1……...Page S2

Fig. S2……...Page S2

Fig. S3……...Page S3

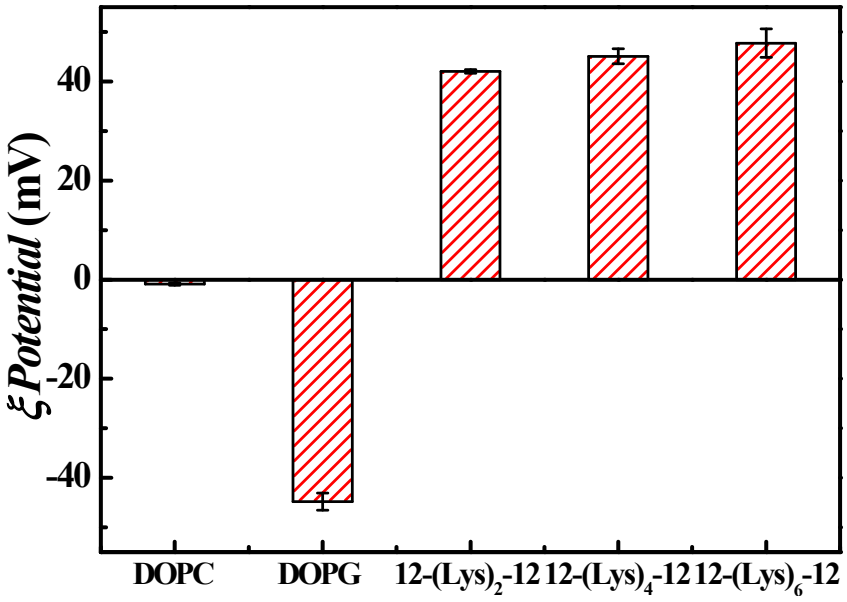

Fig. S1 Zeta potential values of the DOPC, DOPG vesicles and the 12-$(Lys)_n$-12 (n = 2, 4, 6) aggregates.

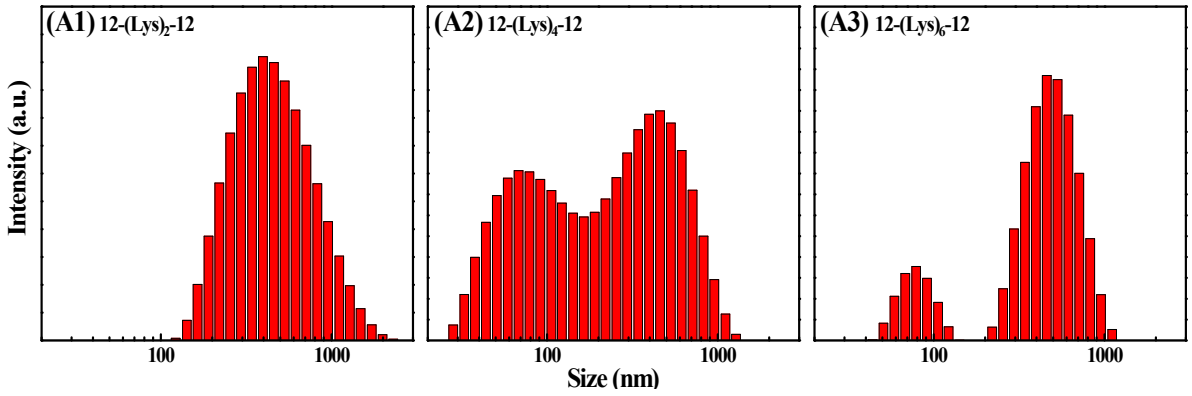

Fig. S2 The size distributions of 12-$(Lys)_2$-12 aggregates (A1), 12-$(Lys)_4$-12 aggregates (A2) and 12-$(Lys)_6$-12 aggregates (A3).

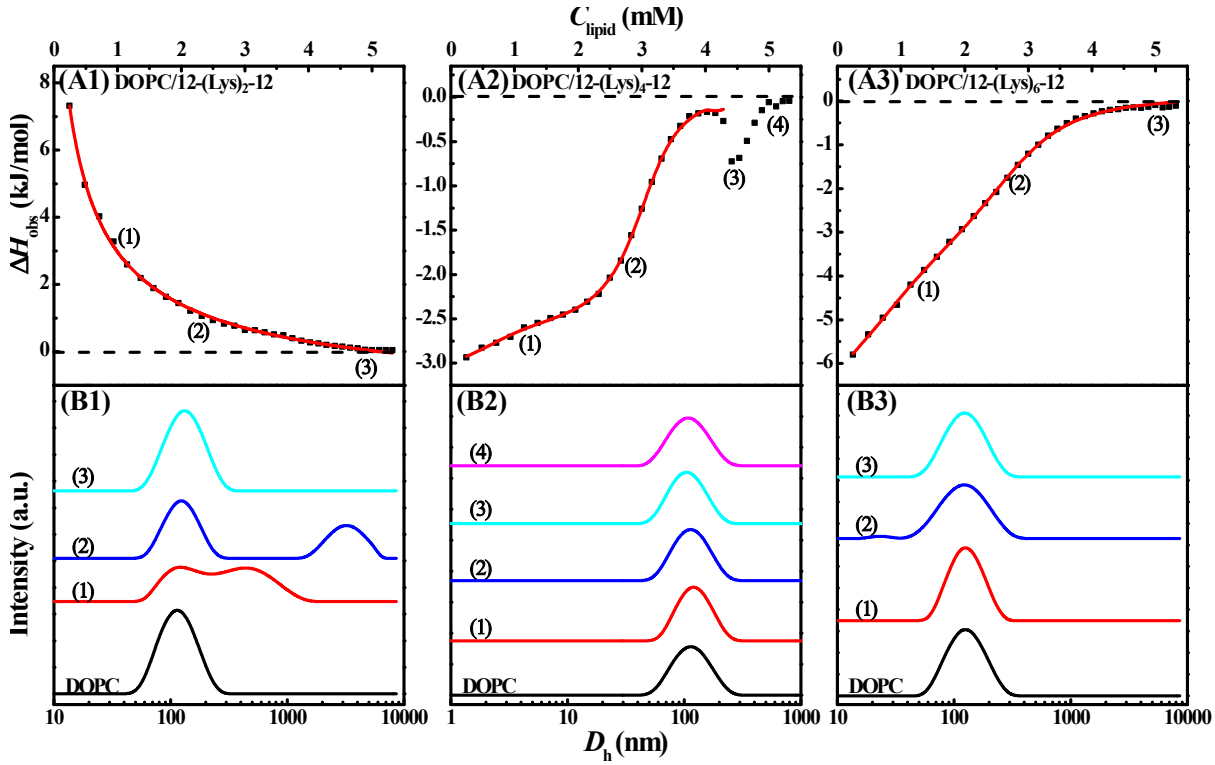

Fig. S3 Variations of observed enthalpy change (ΔH_{obs}) with the titrations of the DOPC vesicles (15.0 mM) into 12-$(Lys)_2$-12 (5.0 mM) (A1), 12-$(Lys)_4$-12 (7.0 mM) (A2) and 12-$(Lys)_6$-12 (10.0 mM) (A3). The hydrodynamic diameters of the DOPC vesicles (B1-B3) during the bindings of these peptide surfactants, corresponding to the samples numbered in the ITC curves.