

SUPPORTING INFORMATION

Atomic Force Microscopic Analysis of the Effect of Lipid Composition on Liposome Membrane Rigidity

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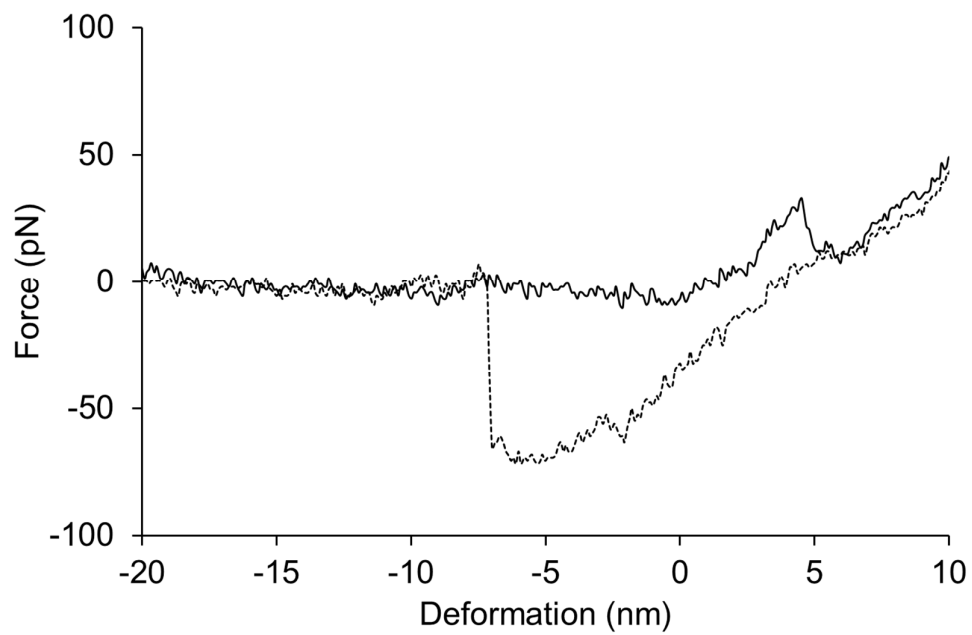


Figure S1. Hysteresis of force-deformation curves in high-deformation regime of EPC (100) liposome on a BSA-coated glass. Solid and dotted lines are approach and retraction curves, respectively.

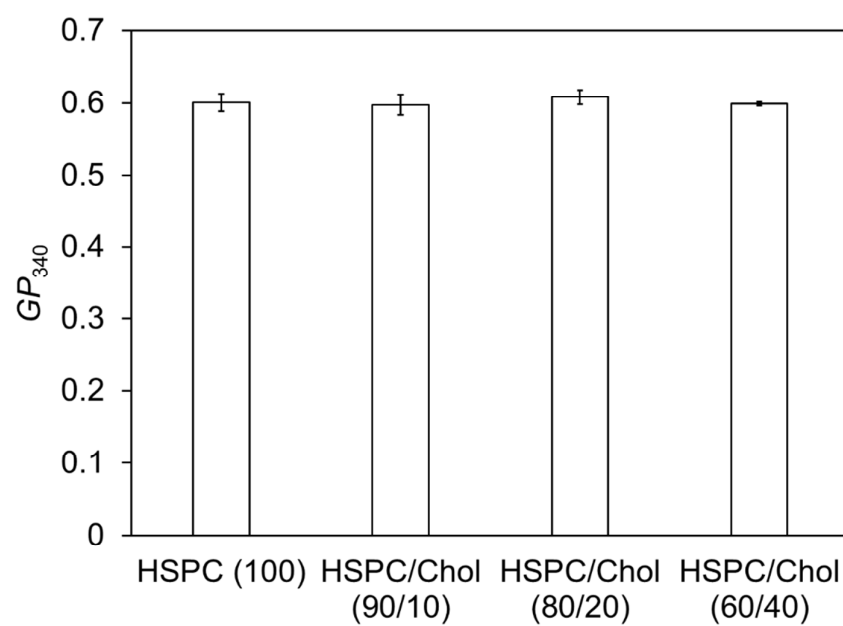


Figure S2. GP_{340} values of Laurdan in HSPC liposomes containing different amounts of Chol.

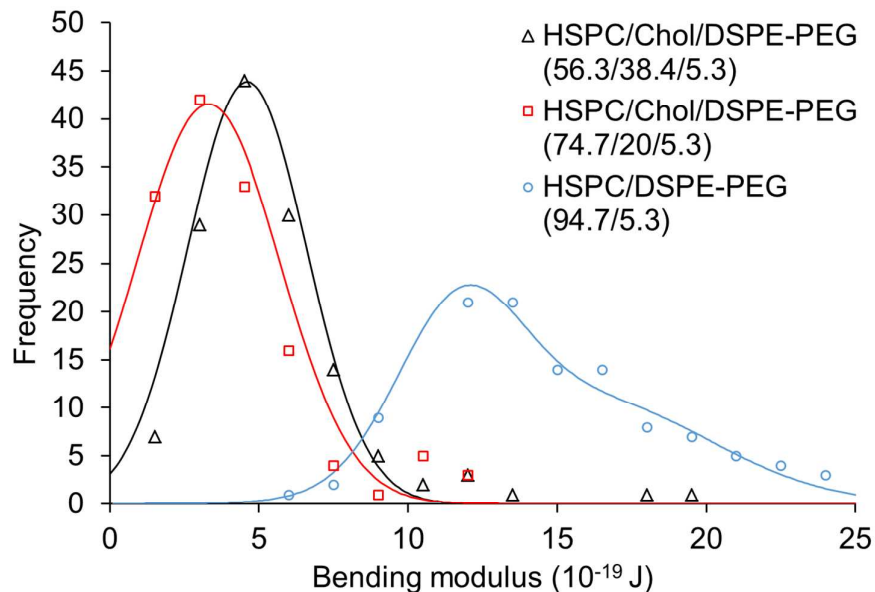


Figure S3. Distributions of bending modulus measured on HSPC/DSPE-PEG (94.7/5.3), HSPC/Chol/DSPE-PEG (74.7/20/5.3) and HSPC/Chol/DSPE-PEG (56.3/38.4/5.3) liposomes. The experimental data of HSPC/Chol/DSPE-PEG (74.7/20/5.3) and HSPC/Chol/DSPE-PEG (56.3/38.4/5.3), respectively, was fitted using one Gaussian distribution. The data of HSPC/DSPE-PEG (94.7/5.3) was fitted using two Gaussian distribution. Because high concentrations of DSPE-PEG (>20 mol%) induce the structural transition of HSPC liposomes (0% Chol) into small discoidal micelles (*Biophys. J.* **2003**, 85, 3839), the two Gaussian distributions might indicate the presence of destabilized HSPC/DSPE-PEG (94.7/5.3) liposomes, the lipid packing of which is disturbed by PEGylation.