

Supporting Information

Analysis of Constant Tension-Induced Rupture in Lipid Membranes

Using Activation Energy

Mohammad Abu Sayem Karal,^a Victor Levadnyy,^b and Masahito Yamazaki^{a,c,d}

Table S1: Fitting by Eq. 7 using a parameter of A_F

a	A_F (s ⁻¹)	U_0 (pN·nm)	Γ (pN)	R^2 value
0.56	5.5×10^5	23	10	0.72
0.54	4.0×10^5	18	11	0.83
0.51	8.0×10^4	12	12	0.91
0.49	5.0×10^4	9.0	12.4	0.95
0.47	1.5×10^5	5	13	0.90
0.45	2.5×10^5	3	14	0.82

Table S2: Fitting by the equation without U_0 using a parameter of D_r (Phys. Rev. E, 92, 012708, 2015) for 40%DOPG/60%DOPC-GUVs in buffer A

a	D_r (nm ² /s)	Γ (pN)	R^2 value
0	1.65×10^2	14.3	0.88
0.1		14.1	0.94
0.2		13.8	0.93
0.3		13.1	0.95
0.4		12.1	0.98
0.45		11.4	0.96
0.49		10.8	0.95
0.56		9.4	0.82