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Electronic Supplementary Information (ESI) for

Fluorescence studies on the interaction between chlorpromazine and model cell membranes

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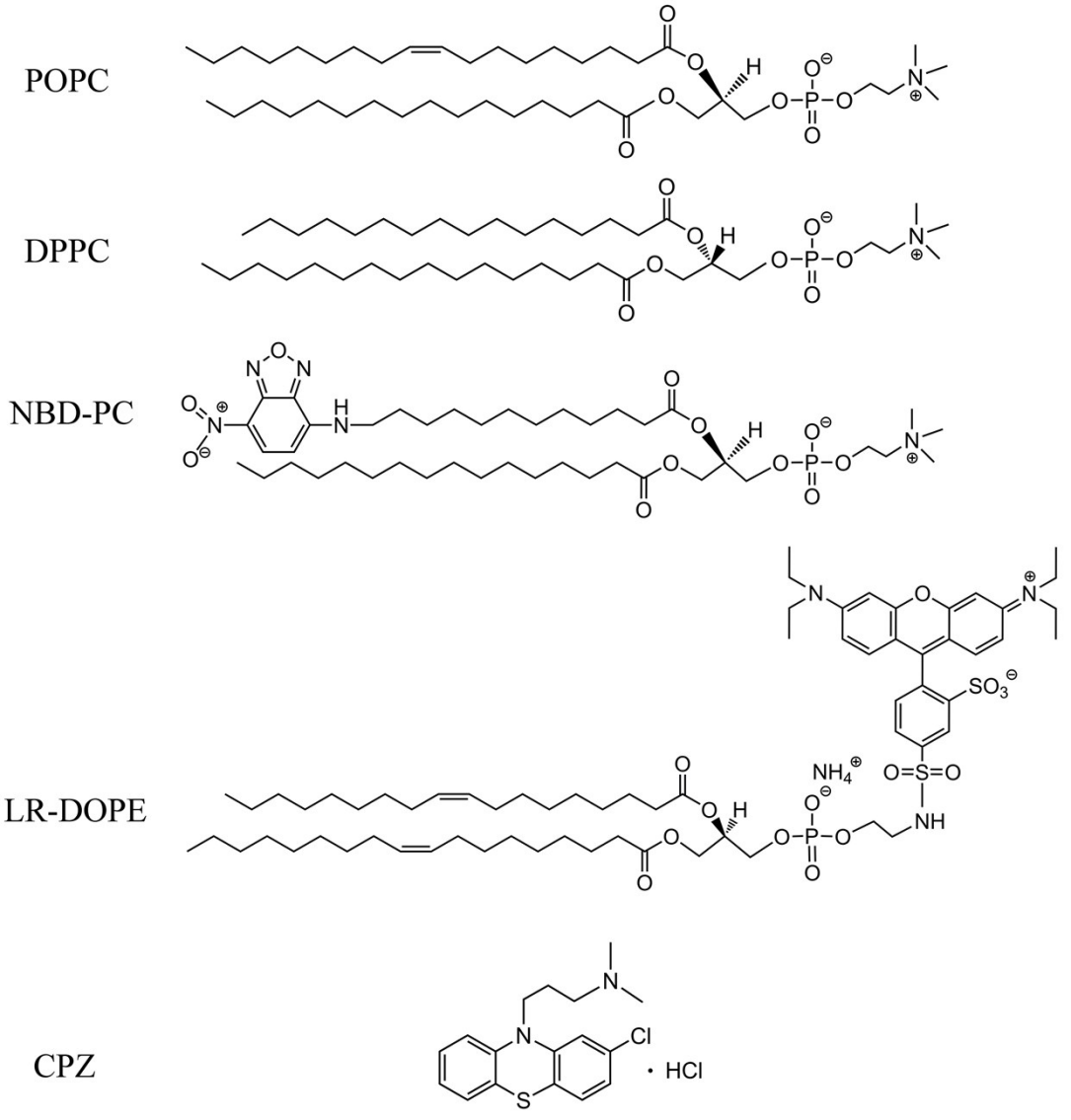

Fig. S1 Molecular structures of 1-palmitoyl-2-oleoyl-*sn*-glycero-3-phosphocholine (POPC), 1,2-dipalmitoyl-*sn*-glycero-3-phosphocholine (DPPC), 1-palmitoyl-2-{12-[(7-nitro-2-1,3-benzoxadiazol-4-yl)amino]dodecanoyl}-*sn*-glycero-3-phosphocholine (NBD-PC), 1,2-dioleoyl-*sn*-glycero-3-phosphoethanolamine-*N*-(lissamine rhodamine B sulfonyl) (ammonium salt) (LR-DOPE) and chlorpromazine hydrochloride (CPZ).

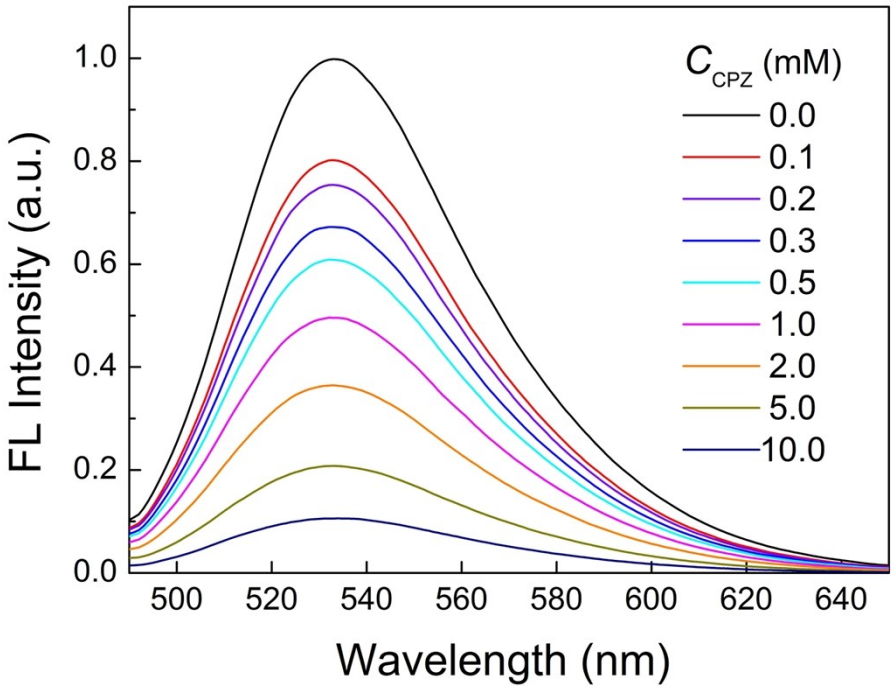

Fig. S2 Fluorescence spectra of DPPC liposomes (containing 1 mol % NBD-PC) interacting with different concentrations of CPZ (0.0–10.0 mM).

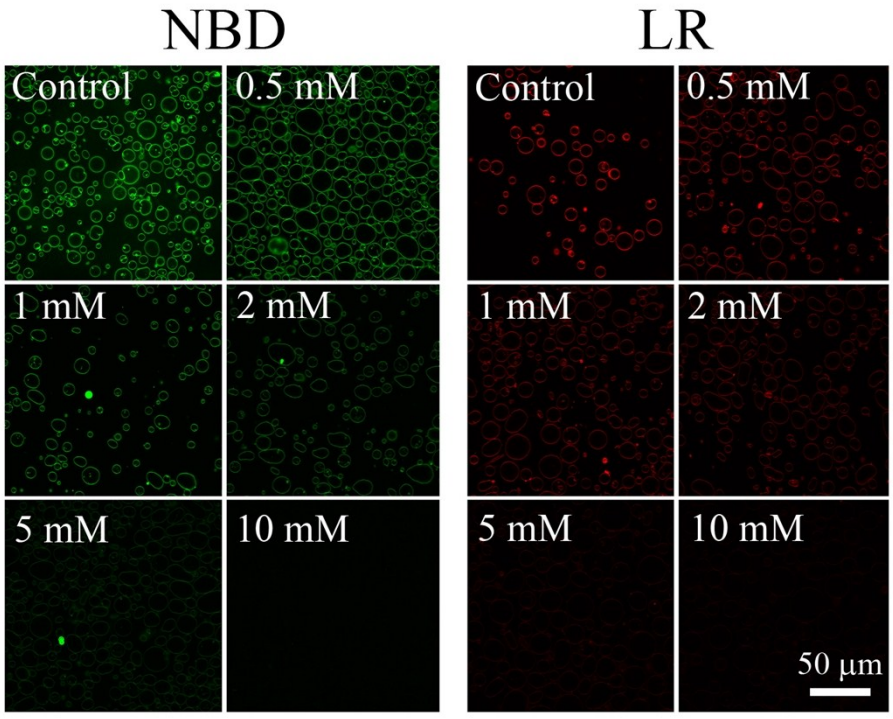

Fig. S3 Confocal fluorescence images of POPC giant unilamellar vesicles (GUVs) interacting with different concentrations of CPZ (0.0–10.0 mM). GUVs containing 1 mol % NBD-PC (Left) and GUVs containing 1 mol % LR-DOPE (Right).

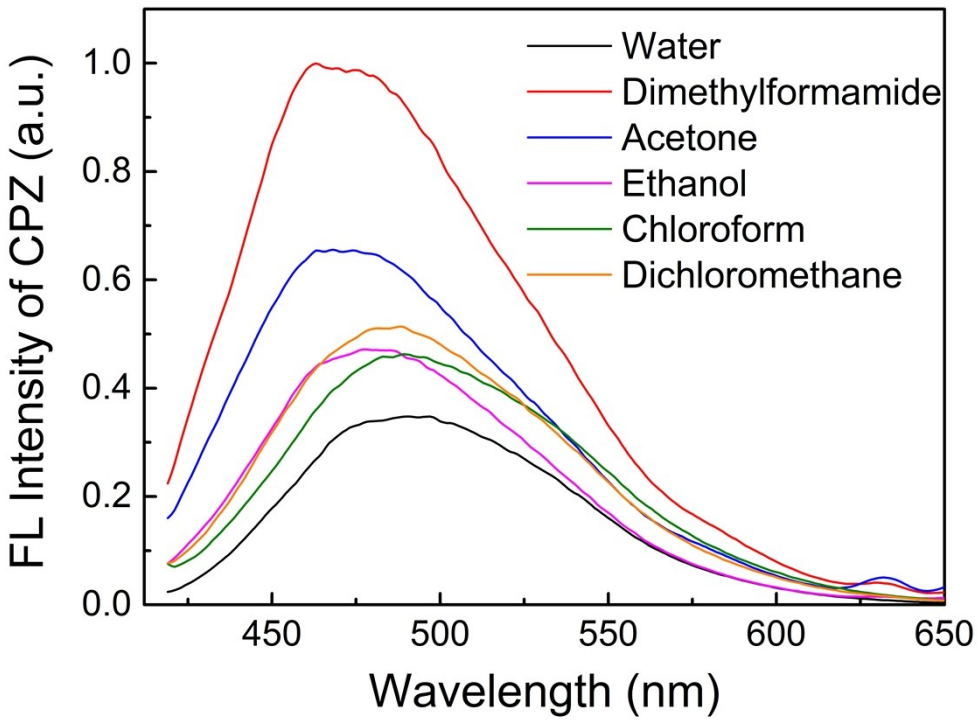

Fig. S4 Fluorescence emission spectra of 10.0 mM CPZ excited at 405 nm in different solvents.

Table S1 Parameters of the fitting curves in Fig. 10.

	NBD		LR	
	without CPZ	with CPZ	without CPZ	with CPZ
Reduced Chi-Squares	2545.4	3275.4	2989.1	7180.7
Degree of Freedom	778	539	466	466
Residual Sum of Squares	1.9803E6	1.7654E6	1.3929E6	3.3462E6
Adj. R-Square	0.99949	0.99858	0.99937	0.99661