



Physical Chemistry Chemical Physics

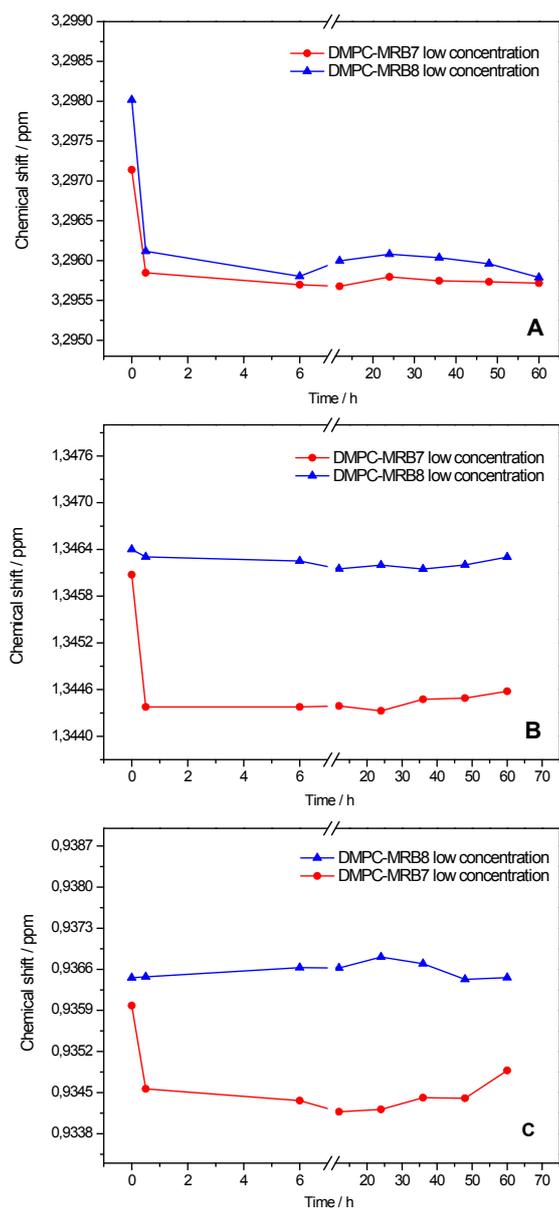
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Electronic Supplementary Information

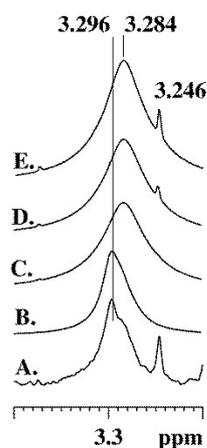
Table S1. Chemical shifts of protons in 600.13 MHz ¹H NMR spectra of MRB7 and MRB8 (0h) and the induced chemical shifts alterations after incubation with DMPC liposomes for 30 min, 24 h, 48h and 60 h.

¹ H	Chemical shifts and DMPC induced alterations (in ppm)									
	MRB7		DMPC/MRB7*			MRB8		DMPC/MRB8*		
	0h	30min	24h	48h	60h	0h	30min	24h	48h	60h
1,8	7.044	+0.031	+0.031	+0.024	+0.023	6.986	-0.010	0	+0.012	+0.015
3,6	6.963	-*	-*	-*	-*	6.898	-0.006	+0.004	+0.018	+0.018
4,5	7.297	+0.026	+0.026	+0.026	+0.026	7.155	0	+0.004	+0.011	+0.013
2a, 7a	3.622	+0.139	+0.139	+0.139	+0.140	3.175	0	+0.006	+0.022	+0.026
2b, 7b	1.254	-*	-*	-*	-*	-	-	-	-	-
2'	7.728	-*	-*	-*	-*	7.736	0	+0.003	+0.008	+0.009
3',4'	8.033	-*	-*	-*	-*	8.124	0	0	0	0
5'	8.191	+0.099	+0.084	+0.084	+0.084	8.439	-0.006	-0.002	+0.017	+0.019
5''	6.531	+0.137	+0.252	+0.252	+0.251	6.609	-0.011	+0.013	+0.045	+0.051
>NCH₃	3.947	-0.042	-0.044	-0.061	-0.061	4.041	-0.005	-0.005	-0.001	-0.003
>CCH₃	2.605	-0.021	-0.021	-0.031	-0.031	2.606	-0.002	-0.002	-0.005	-0.005

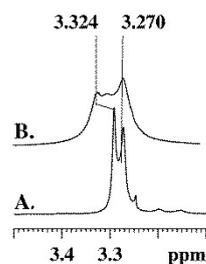
*Overlapped signals



ESI_Figure S1. Chemical shift of protons of the choline (A), $-\text{CH}_2-$ of acyl chain (B) and $-\text{CH}_3$ of acyl chain (C) groups in DMPC structure in the presence of MRB7 (red circles) or MRB8 (blue triangles), at low concentration.



ESI_Figure S2. Choline resonance signals in 600 MHz ^1H NMR spectra (in D_2O , 310 K) of DMPC liposomes before (A) and after (B) extrusion; and of DMPC-MRB7* after 24 h (C), 48 h (D) and 60 h (E) of incubation of DMPC liposomes with MRB7, respectively.



ESI_Figure S3. Choline resonance signals in 600 MHz ^1H NMR spectra of DMPC-MRB8* (in 60 h; in D_2O ; at 310 K) before (A) and after (B) addition of SmCl_3 .