SUPPORTING INFORMATION

Direct Evaluation of Protein-Lipid Contacts Reveals Protein Membrane Immersion and Isotropic Bicelle Structure

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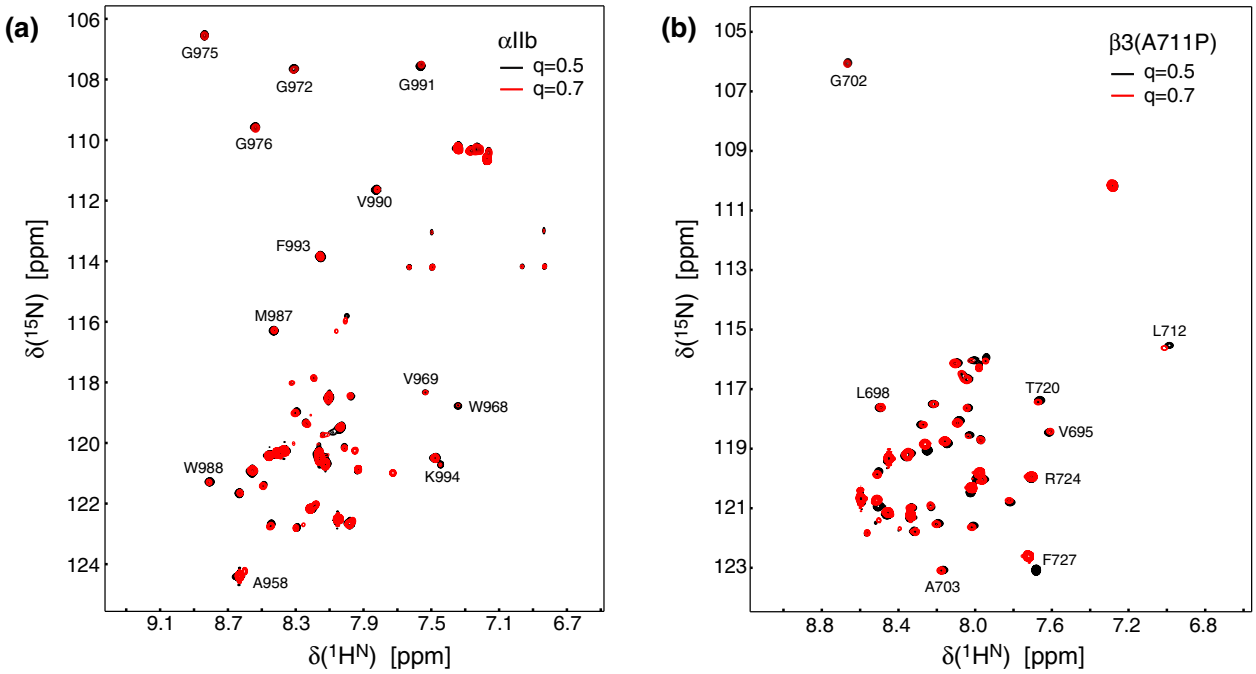

Figure S1. Illustration of spectral quality of bicelle-immersed integrin αIIb and β3(A711P) TM peptides. TROSY-type H-N correlation spectra of 1 mM of the indicated integrin TM peptides in 350 mM DHPC/175 mM POPC (q=0.5 bicelles) and 400 mM DHPC/280 mM POPC (q=0.7 bicelles), respectively. The solutions additionally contained 5 mM tris(2-carboxyethyl)phosphine, 0.02% NaN_3, 6% D_2O, and 25 mM NaH_2PO_4/Na_2HPO_4, pH 7.4. Spectra were recorded at 700 MHz and 35 °C. Selected backbone assignments are shown.

Table S1. Effect of presaturation on intensity of vicinal signals.

Presaturation[a,b]	Attenuation [%] DHPC(#4|CH_2)	Attenuation [%] POPC(#3|CH_2)	Attenuation [%] DHPC(#2|CH_3)	Attenuation [%] POPC(#1|CH_3)
POPC(#1|CH_3)	0	2	18	80
DHPC(#2|CH_3)	3	2	85	19
POPC(#3|CH_2)	18	87	1	4
DHPC(#4|CH_2)	74	25	4	1

[a]Peak labels refer to the numbering of DHPC and POPC resonances depicted in Figure 1a.
[a]Presaturation of 500 ms, B_0= 700 MHz and B_1= 11.2 Hz.