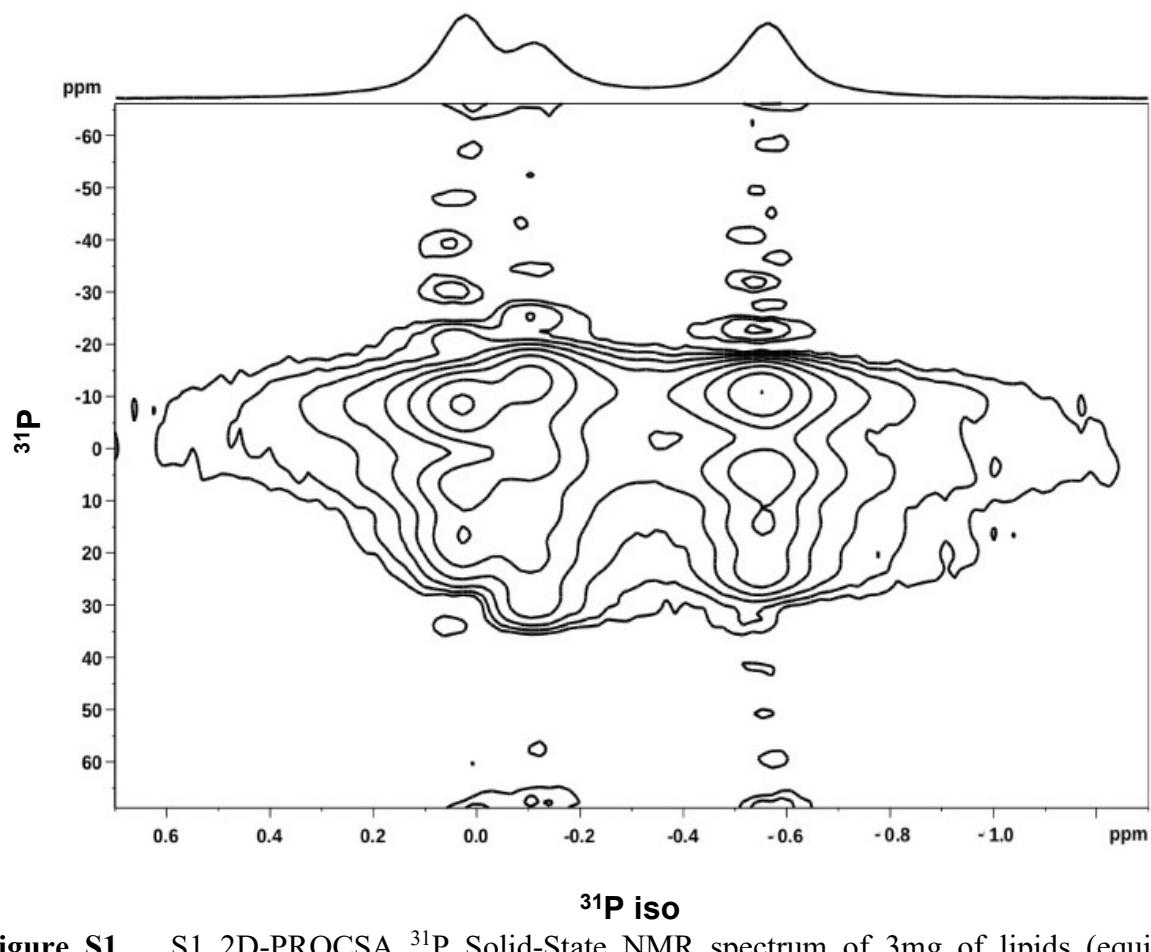


AHNAK C-terminal peptide membrane binding -
Interactions between the residues 5654-5673 of
AHNAK and phospholipid monolayers and bilayers

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Elodie Boisselier**

Supplementary Material



^{31}P iso

Figure S1. S1 2D-PROCSA ^{31}P Solid-State NMR spectrum of 3mg of lipids (equimolar DOPE/DOPC/DOPS), 1mg of AHNAK peptide, and 12 μl of buffer (Tris 20mM, pH8), at 20°C under MAS at 6kHz (7h14 acquisition time). 1D projection on top.

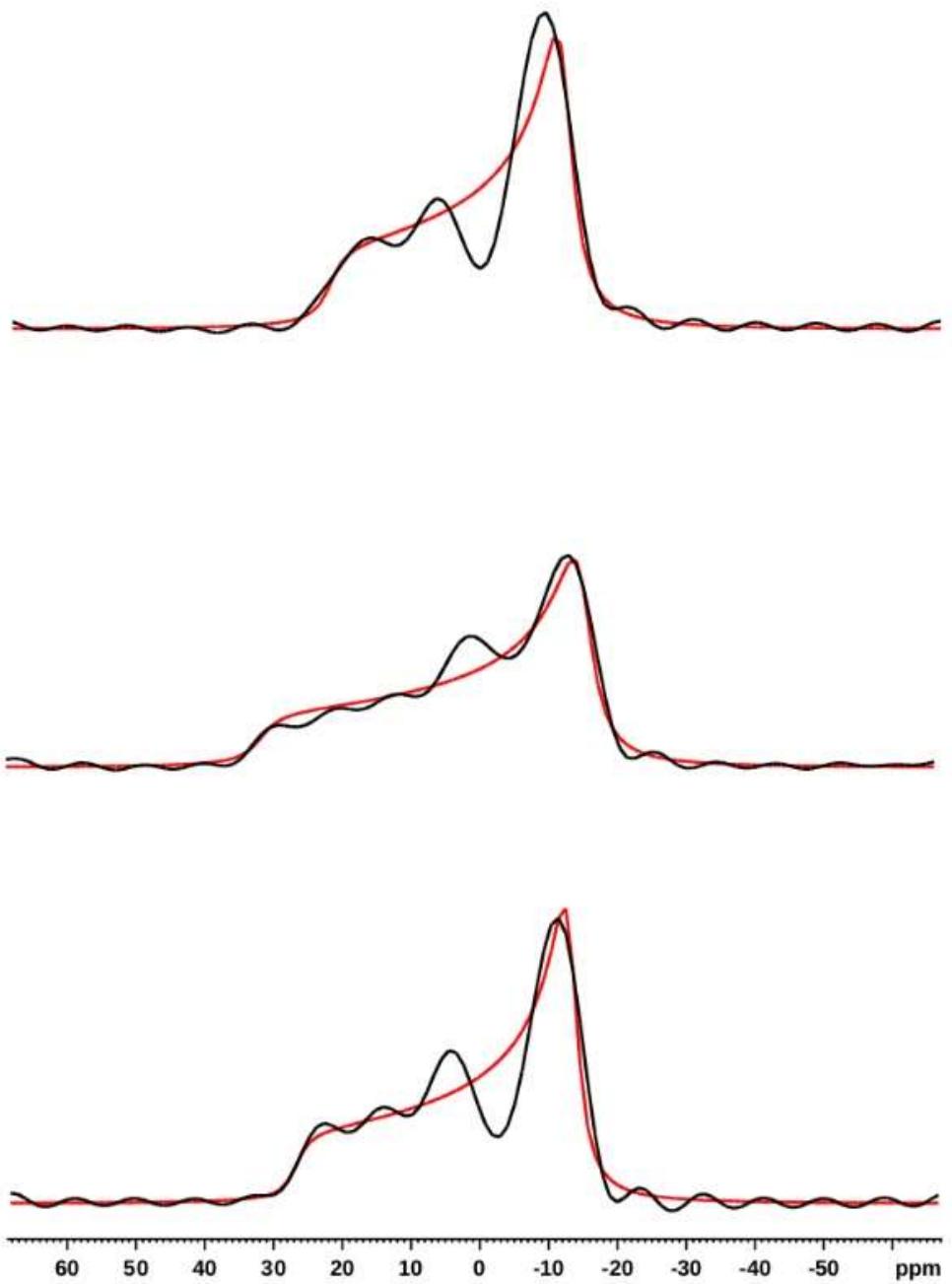


Figure S2. 1D-slices extracted from Fig. S1 (in black), and simulations (red). From top to bottom: DOPE, DOPS, DOPC.

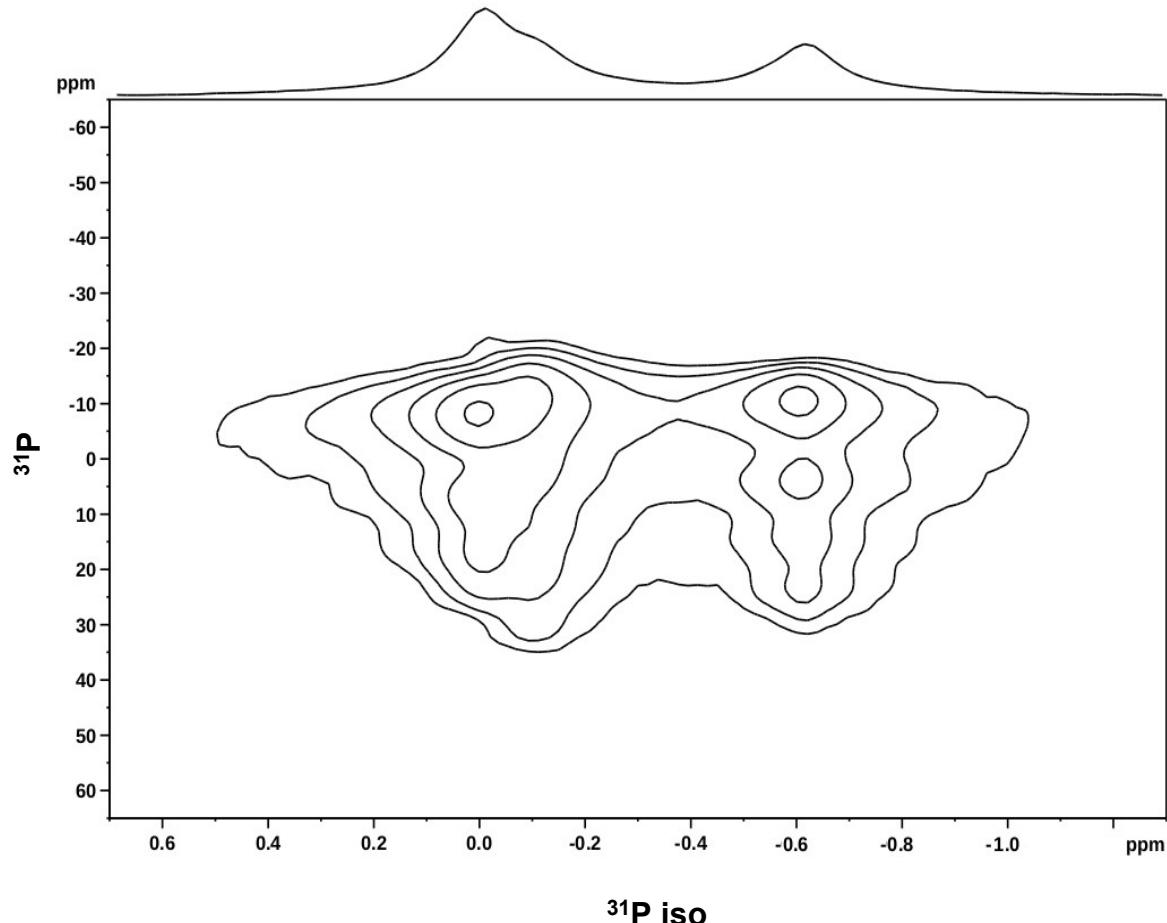


Figure S3. 2D-PROCSA ^{31}P Solid-State NMR spectrum of 3mg of lipids (equimolar DOPE/DOPC/DOPS), 1mg of AHNAK peptide, and 12 μl of buffer (Tris 20mM, pH8), at 37°C under MAS at 6kHz (7h14 acquisition time). 1D projection on top.

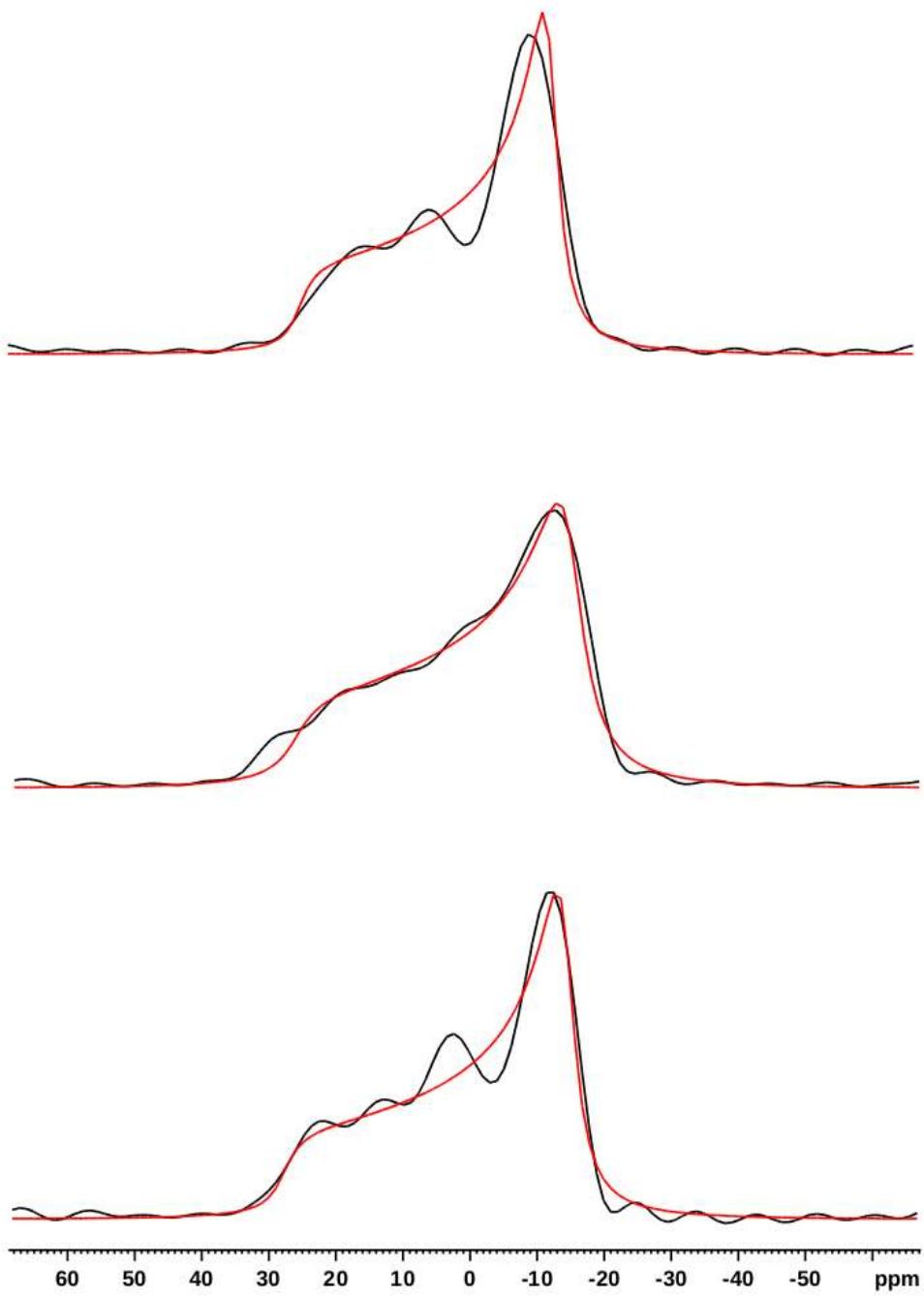


Figure S4. 1D-slices extracted from Fig. S3 (in black), and simulations (in red). From top to bottom: DOPE, DOPS, DOPC.

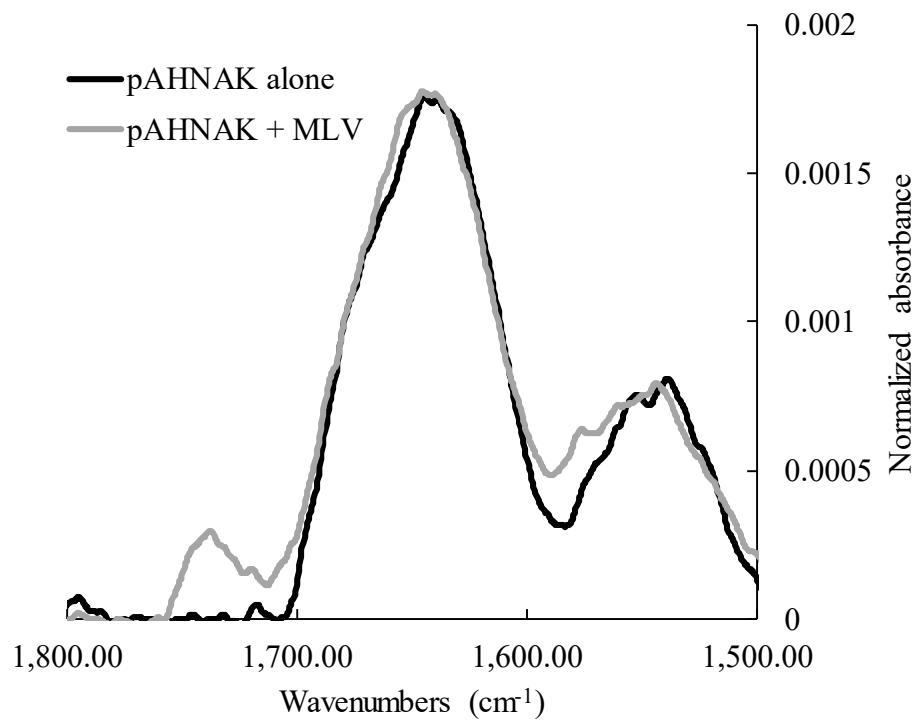


Figure S5. ATR spectra of pAHNAK alone and in the presence of multilamellar vesicles (MLV).

Table S1. CSA values of DOPE, DOPS, and DOPC between 5°C and 40°C in the presence of pAHNAK.

Temperature (°C)		5	10	15	20	25	30	35	40
CSA (ppm)	DOPE	23	23	24	24	24	24	24	24
	DOPS	29	28	29	30	27	26	27	26
	DOPC	28	28	28	28	28	28	28	27