Table 3
Thermodynamic parameters of binding of peptides to POPC vesicles at 25 °C.

Compound	ΔH[a] (kcal/mol)	K[b] (M^{-1})	G[c] (kcal/mol)	ΔS[d] (cal/mol K)
23	0.67	211.0	−5.54	20.84
36	0.65	365.60	−5.87	21.87
29	1.79	192.83	−5.49	24.43
37	1.81	424.55	−5.96	26.07
M2a[e]	−15.9	2000.0	−7.0	−29.4

[a] ΔH values are directly measured binding enthalpies and calculated using Eq. (2).

[b] Binding constants were generated from the lipid-into-peptide titration using as described in the text.

[c] Free energies were calculated using Eq. (3).

[d] Entropy was calculated using Eq. (4).

[e] Thermodynamic parameters for magainin analog M2a as presented by Wieprecht et al.

Table 1
Amino acid sequences of the peptides used in this study (Hicks et al., 2007).

Compound Number	Amino Acid Sequence	Spacer length (Å)[a]
23	Ac-GF-Tic-Oic-GK-Tic-Oic-GF-Tic-Oic-GK-Tic-KKKK-$CONH_2$	2.46
29	Ac-Gaba-F-Tic-Oic-Gaba-K-Tic-Oic-Gaba-F-Tic-Oic-Gaba-K-Tic-KKKK-$CONH_2$	4.68
36	Ac-βAla-F-Tic-Oic-βAla-K-Tic-Oic-βAla-F-Tic-Oic-βAla-K-Tic-KKKK-$CONH_2$	2.94
37	Ac-Ahx-F-Tic-Oic-Ahx-K-Tic-Oic-Ahx-F-Tic-Oic-Ahx-K-Tic-KKKK-$CONH_2$	6.91

[a] Spacer length is defined as the distance between the carbonyl atom and the amide nitrogen.