

Table S1. Compilation of experimental membrane binding free energies of AMPs, in the molarity standard state.

The listed experiments are carried out in temperature close to room temperature. Unless specifically stated, the room temperature is assumed to be 25 °C. a-f, the conversion and correction done to the peptides. No conversion is needed for those articles reporting ΔG_c (ref7, ref 22 and ref 24).

- Converted from ΔG_{app} . With Gouy-Chapman correction, where in the parenthesis is the effective charge of the peptide and after the slash is the energy value with electrostatic interaction added back.
- Converted from ΔG_{app} . The ΔG_{app} is measured at low peptide/lipid ratio. If present, the value inside the parenthesis is the peptide concentration at which the K_{app} was measured.
- Converted from ΔG_a , which is independent of peptide concentration. $\Delta G_c = RT \ln(K_d v_L)$.
- Converted from ΔG_a but considering the binding site size. $\Delta G_c = RT \ln(n K_d v_L)$. The binding site size n is in the parenthesis.
- Converted from ΔG_x .
- Monolayer correction applied, where the peptide is considered to bind only to the outer leaflet of the membrane (the effective lipid volume $V_L = 0.6 V_L$).
- Interpolated.

In red font are the data used in Figure 3.

Peptide	Sequence	Method	Membrane	Binding Energy ΔG_c^0 (kcal/mol)	Original Data	Ref
Magainin	GIGKFLHSAKKFG KAFVGEIMNS-NH2	ITC	POPC/POPG(75:25)	-2.54 (3.7-3.8)/-7.50 ^a -5.72 (1 μ M) ^b	$K_{app}=55.5 \text{ M}^{-1}$ $K_{app}=1.2 \times 10^4 \text{ M}^{-1}$	[1]
		ITC	POPC SUV	-4.74 ^a	$K_{app}=2000 \text{ M}^{-1}$ under 30 °C	[2]
		ITC	POPC/POPG 3:1 LUV SUV	-3.14/-8.16 ^a -2.64/-7.65 ^a	under 45 °C $K_{app}=110 \text{ M}^{-1}$ $K_{app}=50 \text{ M}^{-1}$	[3]
		ITC	POPC/POPG (3:1) SUV POPC SUV	-6.0 ^b -3.7 ^b	$K_{app}=2 \times 10^4 \text{ M}^{-1}$ $K_{app}=400 \text{ M}^{-1}$ under 23 °C	[4]
		CD titration	POPC:POPG(3:1)	-5.98(0M) ^b	$K_{app}=2 \times 10^4 \text{ M}^{-1}$	[5]
		Fluorescence Kinetics	POPC:POPG(1:1) POPC:POPG(7:3) POPC:POPG(8:2) POPC:POPG(9:1) POPC:POPG(10:0)	-7.99 ^c -6.23 ^c -5.56 ^c -4.84 ^c -3.30 ^c	$K_d=1.8 \mu\text{M}$ $K_d=35 \mu\text{M}$ $K_d=110 \mu\text{M}$ $K_d=370 \mu\text{M}$ $K_d=5000 \mu\text{M}$	[6]
I6A8L15I17-M2a	GIGKFIHAAK KFGKLFIGEI MNS(NH2)	ITC	POPC SUV	-5.6 ^a	$K_{app}=7700 \text{ M}^{-1}$ under 30 °C	[2]
I6V9W12T15I17-M2a	GIGKFIHSAKKWG KTFIGEI MNS(NH2)	ITC	POPC SUV	-6.1 ^a	$K_{app}=20000 \text{ M}^{-1}$ under 30 °C	
I6L15-M2a	GIGKFIHSAKKFGK LFVGEIMNS-NH2	CD titration	POPC:POPG(3:1)	-6.11(0M) ^b	$K_{app}=25000 \text{ M}^{-1}$	[5]
L2R11A20-M2a	GLGKFLHSAKRFG KAFVGEAMNS-NH2		POPC:POPG(3:1)	-5.40(0M) ^b	$K_{app}=7400 \text{ M}^{-1}$	
I6A8L15I17-M2a	GIGKFIHAAKKFG KLFIGEIMNS-NH2		POPC:POPG(3:1)	-6.96(0M) ^b	$K_{app}=105000 \text{ M}^{-1}$	
PGLa	GMASKAGAIAGKI AKVALKAL-NH2	ITC LUV	POPC/POPG(3:1) POPC	-4.5(5)/-11.1 ^a -4.1 ^a	$K_{app}=1500 \text{ M}^{-1}$ $K_{app}=800 \text{ M}^{-1}$ under 30 °C	[2]

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Peptide	Sequence	Method	Membrane	Binding Energy ΔG_c^0 (kcal/mol)	Original Data	Ref
Melittin	GIGAVLKVLTTGL PALISWIKRKRQQ- NH ₂	Surface potential measurement	Lethicin	-7.55(10mM Salt) ^f -7.96(100mM Salt) ^f		[7]
		CD	POPC/POPG(9:1)	-6.5(1.9)/-7.7 ^{a,f} -6.3 (0.77 μ M) ^{b,f}	$K_{app}=4.5 \times 10^4 M^{-1}$ $K_{app}=3.19 \times 10^4 M^{-1}$ $K_{app}=4.5 \times 10^4 M^{-1}$	[8]
			POPC/POPG(8:2)	-6.5/-8.2 ^{a,f}		
		Fluorescence NBD	POPC LUV ₂₀₀	-4.92(2.2) ^{a,f}	$K_{app}=6 \times 10^3 M^{-1}$	[9]
			LUV ₁₀₀	-4.82(1.5) ^{a,f}	$K_{app}=5 \times 10^3 M^{-1}$	
			SUV	-5.16(1.2) ^{a,f}	$K_{app}=9 \times 10^3 M^{-1}$	
		DOPC LUV ₂₀₀	-4.82(1.6) ^{a,f}	$K_{app}=5 \times 10^3 M^{-1}$	under 30 °C	
LUV ₁₀₀	-5.01(1.3) ^{a,f}		$K_{app}=7 \times 10^3 M^{-1}$			
Ultrafiltration	EPC EPC:PS(85:15)	-5.1 ^{e,f} -6.4 ^{e,f}	$\Delta G_x=-7.6$ kcal/mol $\Delta G_x=-8.9$ kcal/mol	[10]		
Ultrafiltration	DOPC	-5.1 ^{e,f}	$\Delta G_x=-7.6$ kcal/mol	[11]		
CD	POPC/POPG(10:0) POPC/POPG(9:1) POPC/POPG(3:1) POPC/POPG(1:1)	-3.7 ^{e,f} -4.3(1.0)/-5.5 ^{e,f} -4.62/-6.0 ^{e,f} -5.0/-6.4 ^{e,f}	$\Delta G_x=$ kcal/mol -6.2 -6.8/-8.0 -7.12/-8.5 -7.5/-8.9	[12]		
Pardaxin	GFFALIPKIHSSPLF KTLLSAVGSALSSS GGQE	Fluorescence NBD-label	POPC LPS	-6.21 ^{b,f} -7.1 ^c	$K_{app}=3.3 \times 10^4 M^{-1}$ $K_d=8.5 \mu M$	[13,14]
Dermaseptin	GLWSKIKAAAGKEA AKAAAKAAGKAA LNAVSEAV	Fluorescence NBD-label	PC PC/PS(1:1)	-5.28 ^{b,f} -6.12 ^{b,f}	$K_{app}=6.6 \times 10^3 M^{-1}$ $K_{app}=2.8 \times 10^4 M^{-1}$	[15]
Dermaseptin S1	ALWKTMLKKLGT MALHAGKAALGA AADTISQGTQ	Surface Plasmon Resonance	PC PC/PA(1:1)	-6.47 ^{c,f} -8.0 ^{c,f}	$K_d=14.29 \mu M$ $K_d=1.01 \mu M$	[16]
Dermaseptin S4	ALWMTLLKKVLK AALNAVLGANA		PC PC/PA(1:1)	-8.86 ^{c,f} -9.64 ^{c,f}	$K_d=0.25 \mu M$ $K_d=0.067 \mu M$	
K4K20-S4	ALWKTLLKKVLK AAAKAALKAVLV GANA		PC/PA(1:1)	-9.68 ^{c,f}	$K_d=0.0625 \mu M$	
K4-S4(1-16)a	ALWKTLLKKVLK AAAK-NH ₂		PC/PA(1:1)	-8.10 ^{c,f}	$K_d=0.91 \mu M$	
K4-S4(1-13)a	ALWKTLLKKVLK A-NH ₂		PC/PA(1:1)	-6.68 ^{c,f}	$K_d=10 \mu M$	
K4-S4(1-10)a	ALWKTLLKKV- NH ₂		PC/PA(1:1)	-5.01 ^{c,f}	$K_d=167 \mu M$	
DD K	GLWSKIKAAAG- KEAAKAAGKAAL NAVSEAV-NH ₂		ITC	PC-LUVs	-3.97 (9.7) ^{d,f}	

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Peptide	Sequence	Method	Membrane	Binding Energy ΔG_c^0 (kcal/mol)	Original Data	Ref
CecropinP	SWLSKTAKKLENS AKKRISGIAIAIQ GGPR	Fluorescence NBD	PC PC/PS(1:1)	-5.98 ^{b,f} -6.78 ^{b,f}	$K_{app}=3.1 \times 10^3 \text{ M}^{-1}$ $K_{app}=1.2 \times 10^5 \text{ M}^{-1}$	[18]
CecropinA	KWKLFKKIEKVGQ NIBDGIKAGPAVA WGQATQIAK-NH2	Fluorescence kinetics	POPC:POPG(1:1) POPC:POPG(7:3) POPC:POPG(8:2) POPC:POPG(10:0)	-8.88 ^{c,f} -5.66 ^{c,f} -5.03 ^{c,f} -3.95 ^{c,f}	$K_d=0.24 \mu\text{M}$ $K_d=56 \mu\text{M}$ $K_d=270 \mu\text{M}$ $K_d=1000 \mu\text{M}$	[19]
		Fluorescence Trp	POPC:POPA(8:2)	-5.92 (27.8) ^{d,f}	$K_d=1.28 \mu\text{M}$	[20]
δ -lysin	formyl- MAQDIISTIGDLVK WIIDTVNKFTKK	Fluorescence Kinetics	POPC	-6.0 ^{c,f}	$K_d=30 \mu\text{M}$	[21]
DL-1 δ -lysin D->K	formyl- MAQKIISTIGKLVK WIIKTVNKFTKK		POPC	-4.5 ^{c,f}	$K_d=400 \mu\text{M}$	
DL-2a	formyl- LAADLLAALGDLA KWLLDALAKAAK K		POPC	-4.9 ^{c,f}	$K_d=200 \mu\text{M}$	
DL-2b	formyl- LAADLLAALGDLL KWLLDALAKLAK K		POPC	-3.2 ^{c,f}	$K_d=3400 \mu\text{M}$	
CE-1	KWKLLKKLEKAG AALKEGLLKAGPA LALLGAAAALAK- NH2		POPC	-4.5 ^{c,f}	$K_d=400 \mu\text{M}$	
CE-2	KWKLLKKLEKAG AALKEGLLKAGPA LALLGAAAALAK- NH2		POPC	-3.0 ^{c,f}	$K_d=4700 \mu\text{M}$	
MG-1	GILKFLESAKKWL EAFLAEIMNS		POPC	-4.9 ^{c,f}	$K_d=200 \mu\text{M}$	
MG-2	GLGKLLHAAKKL GKAWLGELLAA		POPC	-3.9 ^{c,f}	$K_d=1100 \mu\text{M}$	
Tp10W	AGWLLGKINLKAL AALAKKIL-NH2	Fluorescence Kinetics	POPC	-5.1 ^{c,f}	$K_d=140 \mu\text{M}$	[22]
Tp10W-COO	AGWLLGKINLKAL AALAKKIL		POPC	-4.9 ^{c,f}	$K_d=200 \mu\text{M}$	
Tp10-7MC	AGYLLGK(- 7MC)INLKALAALA KKIL-amide		POPC	-6.3 ^{c,f}	$K_d=20 \mu\text{M}$	
mastoparan X	INWKGIAAMAKKL L-NH2		POPC	-4.7 ^{c,f}	$K_d=300 \mu\text{M}$	

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Peptide	Sequence	Method	Membrane	Binding Energy ΔG_c^0 (kcal/mol)	Original Data	Ref
Alamethicin	AibPAibAibAibAibQ AibVAibGLAibPVai bAibEQPhl	EPR	DOPC	-5.77 ^f	$K_c=17100$	[23]
Gramicidin S 14dK4	cyclo[VKLDKvDYPL KVKLDYP]	ITC LUV	POPC/POPG(3:1) POPC/POPS(3:1) POPG POPS POPC	-6.2 (11.1) ^d -6.5 (14.3) ^d -8.3 (5) ^d -7.6 (5.3) ^d -2.0 (166.7) ^d	$K_d=3.1 \mu\text{M}$ $K_d=1.7 \mu\text{M}$ $K_d=22 \mu\text{M}$ $K_d=62 \mu\text{M}$ $K_d=278 \mu\text{M}$	[24]
CM15	KWKLFKKIGAVLK VL	Tryptophan time-resolved fluorescence	DMPC DMPG	-4.72 -5.49	$K_c=2.9 \times 10^3$ $K_c=1.06 \times 10^4$	[25]
		EPR	POPE/POPG(8:2)	-4.86 ^{b,f}	$K_{app}=0.28 \times 10^4 \text{ M}^{-1}$	[26]
LL37(F27W)	LLGDFFRKSKEKIG KEFKRIVQRIKDFL RNLVPRTES	Tryptophan fluorescence	SOPC SOPCPOPG(9:1) SOPCPOPG(8:2) SOPCPOPG(6:4)	-6.16 ^{c,f} -8.44 ^{c,f} -8.58 ^{c,f} -8.79 ^{c,f,g} -9.29 ^{c,f}	$K_d=23.8 \mu\text{M}$ $K_d=0.51 \mu\text{M}$ $K_d=0.40 \mu\text{M}$ $K_d=0.12 \mu\text{M}$	[27]
			Indolicidin	ILPWKWPWWPWR R-NH 2	ITC LUV	POPC E Coli lipid
Tritrpticin	VRRFPWWWPFLR R-COO ⁻	Reverse HPLC LUV	POPC POPG	-6.3 ^{e,f} -9.0 ^{e,f}	$\Delta G_x=-8.8 \text{ kcal/mol}$ $\Delta G_x=-11.5 \text{ kcal/mol}$	[29]
		ITC LUV	POPE/POPG(7:3) POPC E Coli lipid	-8.59 ^{c,f} -5.63 ^{c,f} -8.14 ^{c,f}	$\Delta G_a=-8.73 \text{ kcal/mol}$ $\Delta G_a=-5.77 \text{ kcal/mol}$ $\Delta G_a=-8.28 \text{ kcal/mol}$	[28]
Tritrp1	VRRFPWWWPFLR R-NH2		POPE/POPG(7:3) POPC	-9.86 ^{c,f} -6.75 ^{c,f}	$\Delta G_a=-10.0 \text{ kcal/mol}$ $\Delta G_a=-6.89 \text{ kcal/mol}$	[30]
Tritrp2	VKKFPWWWPFLK K-NH2		POPC	-5.28 ^{c,f}	$\Delta G_a=-5.42 \text{ kcal/mol}$	
Tritrp3	VRRFAWWWA FLRR-NH2		POPE/POPG(7:3) POPC	-9.09 ^{c,f} -6.99 ^{c,f}	$\Delta G_a=-9.23 \text{ kcal/mol}$ $\Delta G_a=-7.13 \text{ kcal/mol}$	
LAP1	QPEWFKARRWQW RMKKLGA	Fluorescence Trp	DMPC:DMPG 1:1	-6.47 (19.5) ^{d,f}	$K_d=0.728 \mu\text{M}$	[31]
LAP2	TISQPEWFKARRW QWRMKKLGA			-6.53 (22.0) ^{d,f}	$K_d=0.581 \mu\text{M}$	
LAP3	TISQA EWFKARRW QWRMKKLGA			-6.19 (21.0) ^{d,f}	$K_d=1.09 \mu\text{M}$	
LAP4	TASQA EWFKARR WQWRMKKLGA			-6.28 (21.8) ^{d,f}	$K_d=0.898 \mu\text{M}$	
LAP5	EWFKARRWQWR MKKLGA			-7.63 (15.4) ^{d,f}	$K_d=0.129 \mu\text{M}$	
LAP6	EWFKARRWGWR MKKLQA			-7.45 (15.4) ^{d,f}	$K_d=0.175 \mu\text{M}$	
KLA80	KLALKLALKWAK LALKAA	CD titration	POPC POPG	-4.91 ^{b,f} -7.20 ^{b,f}	$K_{app}=5100 \text{ M}^{-1}$ $K_{app}=2.5 \times 10^5 \text{ M}^{-1}$	[31]
KLA100	KLLAKAAKKWLL LALKAA		POPG	-7.07 ^{b,f}	$K_{app}=2 \times 10^5 \text{ M}^{-1}$	
KLA120	KLLAKAALKWLL KALKAA		POPC POPG	-4.95 ^{b,f} -7.13 ^{b,f}	$K_{app}=5500 \text{ M}^{-1}$ $K_{app}=2.2 \times 10^5 \text{ M}^{-1}$	
KLA140	KALKKLLAKWLA AAKALL		POPC POPG	-5.14 ^{b,f} -6.83 ^{b,f}	$K_{app}=7500 \text{ M}^{-1}$ $K_{app}=1.3 \times 10^5 \text{ M}^{-1}$	
KLA160	KLAAALLKKWKK LAAALL		POPC POPG	-5.14 ^{b,f} -7.02 ^{b,f}	$K_{app}=7500 \text{ M}^{-1}$ $K_{app}=1.8 \times 10^5 \text{ M}^{-1}$	
KLA180	KALAALLKKWAK LLAALK		POPG	-6.83 ^{b,f}	$K_{app}=1.3 \times 10^5 \text{ M}^{-1}$	

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