

		-[θ]222	helix content (pH 7.0, 1°C, 0.01 M NaCl)
i+4 E,K	A E A A A K E A A A K E A A A K A	29,000	
i+4 K,E	A K A A A E K A A A E K A A A E A	25,300	
i+3 E,K	A E A A K A E A A K A E A A K A	17,600	
i+3 K,E	A K A A E A K A A E A K A A E A	8,500	

Glu-Arg residues in different orientations and spacings. *Protein Sci.* **1993**; 2: 80-85  
-[θ]222

i+4 D,R	A D A A A R D A A A R D A A A R Y	25,200	
i+4 R,D	A R A A A D R A A A R D A A A R Y	16,300	
i+3 D,R	A D A A R A D A A R A D A A R Y	14,000	
i+3 R,D	A R A A D A R A A D A R A A D Y	2,200	helix content (pH 7.0, 1°C, 0.01 M NaCl)
i+4 E,R	A E A A A R E A A A R E A A A R Y	31,300	
i+4 R,E	A R A A A E R A A A E R A A A E Y	22,400	
i+3 E,R	A E A A R A E A A R A E A A R Y	22,500	
i+3 R,E	A R A A E A R A A E A R A A E Y	11,800	

i+4 Q,E A A Q A A A E Q A A A A Q A A Y -340 -380  
 i+4 Q,E A A Q A A A A Q A A A E Q A A Y -270 -300

					Interactions
i+2 E,K	A A Q A E A K Q A A E A Q A A Y	180	-95	(0.01 M NaCl)	
i+3 E,K	A A Q A A E A Q K A A E Q A A Y	-380	-285		
i+4 E,K	A A Q A A E A Q A K A A Q E A Y	-470	-340		
i+3 K,E	A A Q A A K A Q E A A E Q A A Y	-460	-320		
i+4 K,E	A A Q A A K A Q A E A A Q E A Y	-380	-290		
Smith JS, Scholtz JM. Energetics of polar side-chain interactions in helical peptides: salt effects on ion pairs and hydrogen bonds. <i>Biochemistry</i> . 1998; 37: 33/40					
			-[θ]222	ΔG° (E-K <sup>+</sup> )	
i+3 E,K	A A Q A A E A Q K A A A Q A A Y	11,400	-290		

i+5 E,K	A A Q A A E A Q A A K A Q A A Y	8,500	(0°C, 0.01 M NaCl)
i+3 K,E	A A Q A A K A Q E A A A Q A A Y	9,000	-280

			Interactions (0.01 M NaCl)
i+5 K,E	A A Q A A K A Q A A E A Q E A Y	6,900	
i+3 D,K	A A Q A A D A Q K A A A Q A A Y	8,200	-120
i+4 D,K	A A Q A A D A Q A K A A Q A A Y	9,200	-240
i+5 D,K	A A Q A A D A Q A A K A Q A A Y	7,400	
i+3 K,D	A A Q A A K A Q D A A A Q A A Y	8,400	-400
i+4 K,D	A A Q A A K A Q A D A A Q A A Y	10,300	-580
i+5 K,D	A A Q A A K A Q A A D A Q E A Y	5,800	
i+3 E,H	A A Q A A E A Q H A A A Q A A Y	4,500	-300
i+4 E,H	A A Q A A E A Q A H A A A Q A A Y	4,100	-190
i+5 E,H	A A Q A A E A Q A A H A Q A A Y	3,600	
i+3 H,E	A A Q A A H A Q E A A A Q A A Y	4,400	-500
i+4 H,E	A A Q A A H A Q A E A A A Q A A Y	5,300	-650
i+5 H,E	A A Q A A H A Q A A E A Q E A Y	2,300	

E H/K/R E

K/R	D	i+4	0.75
K/R	D	i+3	0.5

D	K/R	i+4	0.75	medium
D	K/R	i+3	0.5	weak
E	H	i+3	0.5	weak
Q	E	i+4; i+3	0.5	weak
E	Q	i+4; i+3	0.5	weak
network stabilization (oppositely charged residues)		i, i+3, i+6	1.5	network
		i, i+3, i+7	0.25	network
		i, i+4, i+7	0.25	network
		i, i+4, i+8	2.0	network
hydrophobic seam		i, i+3, i+6	-0.5	destabilizing
		i, i+3, i+7	-0.5	destabilizing
		i, i+4, i+7	-0.5	destabilizing
		i, i+4, i+8	0.5	destabilizing

## **Stabilization / destabilization by helix-forming propensity**

Residue	Score	Stabilization
A	0.25	stabilizing
G	-0.5	destabilizing