

Table V. AVERAGE Binding Energies of Representative Amino Acid Residues

classification	name	structure	AVERAGE binding energy, kcal/mol
nonpolar	glycine	$\begin{array}{c} \text{HCHCO} \\ \\ \text{NH} \end{array}$	4.0
	leucine	$\begin{array}{c} (\text{CH}_3)_2\text{CHCH}_2\text{CHCO} \\ \\ \text{NH} \end{array}$	5.8
polar	serine	$\begin{array}{c} \text{HOCH}_2\text{CHCO} \\ \\ \text{NH} \end{array}$	5.9
	tyrosine	$\begin{array}{c} \text{HOC}_6\text{H}_4\text{CH}_2\text{CHCO} \\ \\ \text{NH} \end{array}$	9.4
charged	glutamic acid	$\begin{array}{c} \text{HOOCCH}_2\text{CH}_2\text{CHCO} \\ \\ \text{NH} \end{array}$	11.7
	lysine	$\begin{array}{c} \text{H}_3\text{N}^+\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CHCO} \\ \\ \text{NH} \end{array}$	15.2