Amino Acids List

AA Name	Abbrev.		Structure	AA Name	Abbre	٧.	Structure		
Alanine	Ala	Α	CH ₂ -NH-CH-CO-	Leucine	Leu	L	CH, CH,ch-Ch, -NH-ch-CO-		
Arginine	Arg	R	NH, CH,CH,CH,NH-C -NH-CH-CO- NH	Lysine	Lys	К	CH ₂ CH ₂ CH ₂ CH ₂ NH ₂ -NH-CH-CO-		
Asparagine	Asn	N	CH'-G-NH'	Methionine	Met	M	CH2CH2S-CH3 -NH-CH-CO-		
Aspartic acid	Asp	D	СН ₂ - <mark>-, -ОН</mark> -ИН-СН-СО-	Phenylalanine	Phe	F	CH₂- -NH-CH-CO-		
Cysteine	Cys	С	H ₄ C − <mark>SH</mark> -NH-CH-CO-	Proline	Pro	Р	CH, H,C CH, -N—CH-CO-		
Glutamine	Gln	Q	СН,-СН, <mark>- NН,</mark> -NH-СН-СО-	Serine	Ser	S	CH _₹ OH -NH-CH-CO-		
Glutamic acid	Glu	Е	Сн-сн-со- -nн-сн-со-	Threonine	Thr	Т	OH CH, CH -NH-CH-CO-		
Glycine	Gly	G	-NH-CH ₄ -CO-	Tryptophan	Trp	W	CH; -NH-CH-CO-		
Histidine	His	Н	H CH ₂ N -NH-CH-CO-	Tyrosine	Tyr	Y	CH₂- ◯ - OH -NH-CH-CO-		
Isoleucine	lle	I	CH ₃ H¢-CH-CH ₃ -NH-CH-CO-	Valine	Val	V	CH, CH, CH		

	A L A	A R G	A S N	A S P	C Y S	G L U	G L N	G L Y	H I S	I L E	L E U	L Y S	M E T	P H E	P R O	S E R	T H R	T R P	T Y R	V A L
acidic (negative)				D		E														
basic (positive)		R							н			K								
charged		R		D		E			н			K								
neutral	Α		N		С		Q	G	н	ı	L		М	F	Р	s	Т	w	Y	v
hydrophobic	Α							G		ı	L		М	F	Р			w	Y	v
Hydrophilic (polar)		R	N	D	С	Е	Q		н			K				s	т			

^{*}Amino acid structures from $\underline{www.ionsource.com}$