

The concept hierarchy about protein, which is referred from [1].

Property	Amino Acid	1-Letter
Polar positive	Histidine	H
	Lysine	K
	Arginine	R
Polar negative	Asparic acid	D
	Glutamic acid	E
Polar neutral	Serine	S
	Threonine	T
	Asparagine	N
	Glutamine	Q
Non-polar aliphatic	Alanine	A
	Valine	V
	Leucine	L
	Isoleucine	I
	Methionine	M
Non-polar aromatic	Phenylalanine	F
	Tyrosine	Y
	Tryptophan	W
Small	Proline	P
	Glycine	G
Sulfur-containing	Cysteine	C
Special characters	Asparagine	B
	Aspartate	
	Glutamine	Z
	Glutamate	
Unknown	Unknown	X