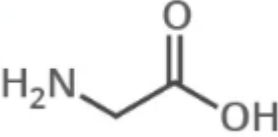
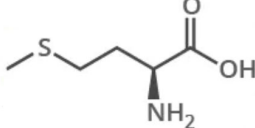
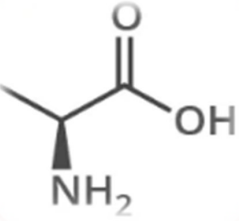
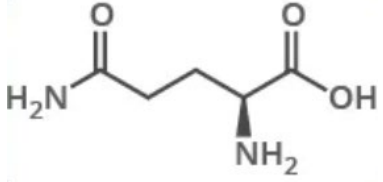
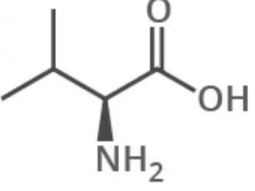
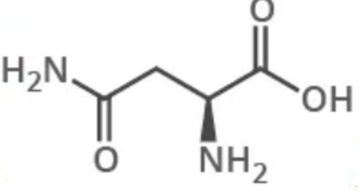
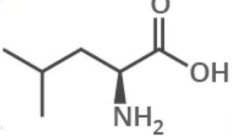
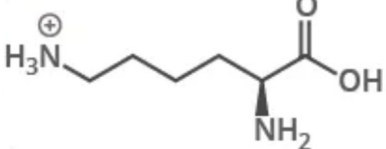
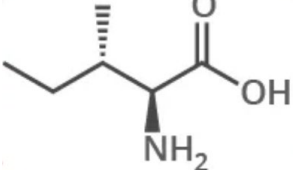
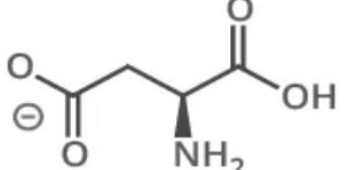
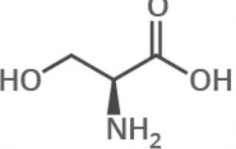
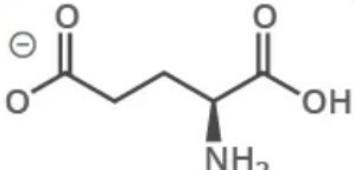
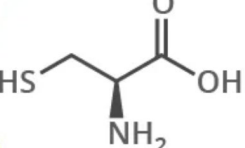
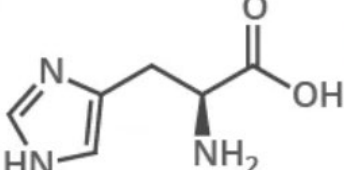
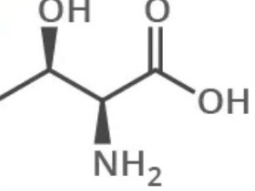
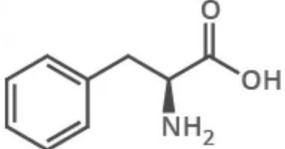
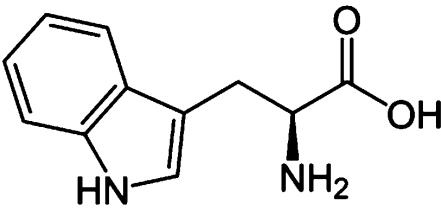
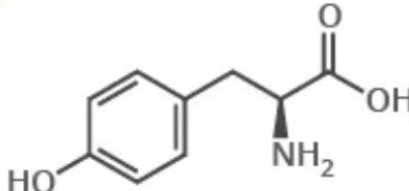
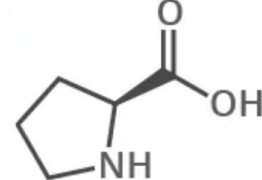
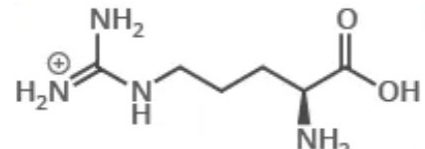


Glycine (Gly, G)			Methionine (Met, M)	
Alanine (Ala, A)			Glutamine (Gln, Q)	
Valine (Val, V)			Asparagine (Asn, N)	
Leucine (Leu, L)			Lysine (Lys, K)	
Isoleucine (Ile, I)			Aspartic Acid (Asp, D)	
Serine (Ser, S)			Glutamic Acid (Glu, E)	
Cysteine (Cys, C)			Histidine (His, H)	
Threonine (Thr, T)			Phenylalanine (Phe, F)	

Tryptophan (Trp, W)	 <p>The chemical structure of Tryptophan shows an indole ring system attached to a side chain. The side chain consists of a methylene group (-CH₂-) followed by a chiral center (alpha carbon) bonded to an amino group (-NH₂) and a carboxylic acid group (-COOH). The amino group is shown with a wedge bond, indicating its stereochemistry.</p>
Tyrosine (Tyr, Y)	 <p>The chemical structure of Tyrosine features a para-hydroxyphenyl ring attached to a side chain. The side chain consists of a methylene group (-CH₂-) followed by a chiral center (alpha carbon) bonded to an amino group (-NH₂) and a carboxylic acid group (-COOH). The amino group is shown with a wedge bond.</p>
Proline (Pro, P)	 <p>The chemical structure of Proline is a five-membered pyrrolidine ring. The nitrogen atom is part of the ring. A carboxylic acid group (-COOH) is attached to the alpha carbon of the ring, shown with a wedge bond.</p>
Arginine (Arg, R)	 <p>The chemical structure of Arginine consists of a long side chain starting with a methylene group (-CH₂-) attached to a guanidinium group. The guanidinium group is shown as a central carbon double-bonded to two nitrogen atoms, one of which is protonated (NH₂⁺). The side chain continues with a methylene group (-CH₂-) followed by a chiral center (alpha carbon) bonded to an amino group (-NH₂) and a carboxylic acid group (-COOH). The amino group is shown with a wedge bond.</p>