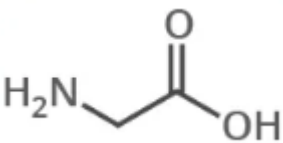
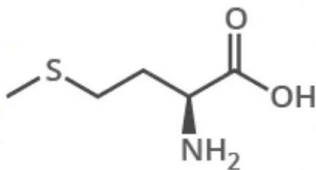
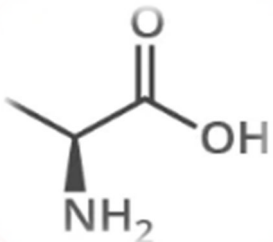
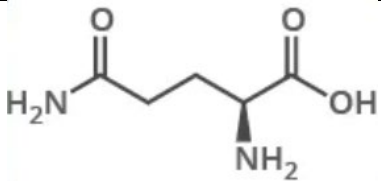
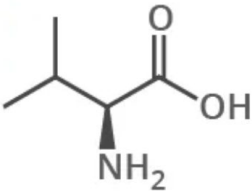
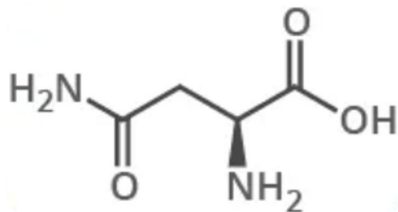
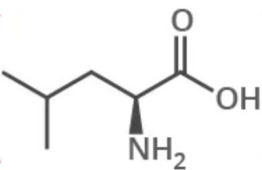
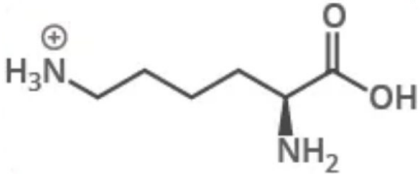
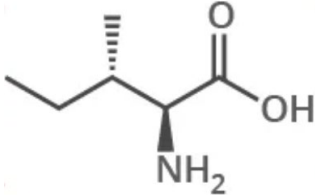
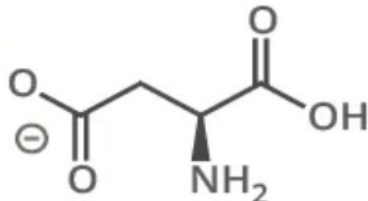
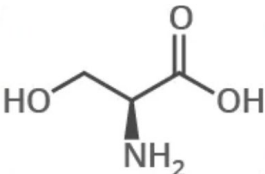
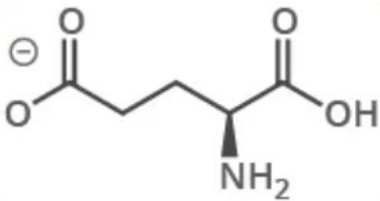
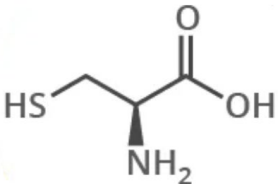
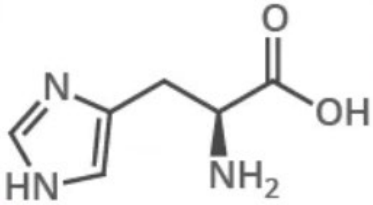
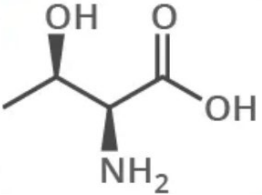
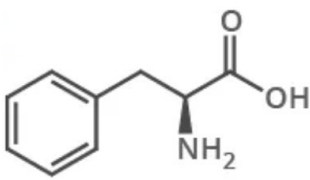
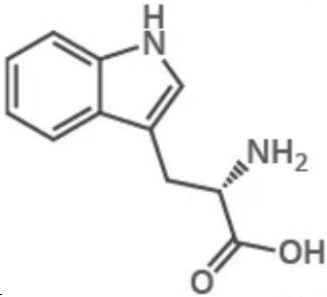
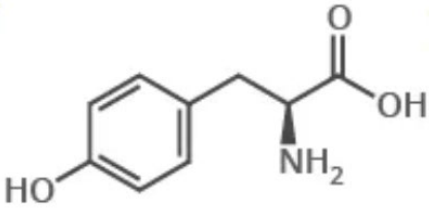
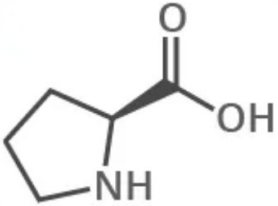
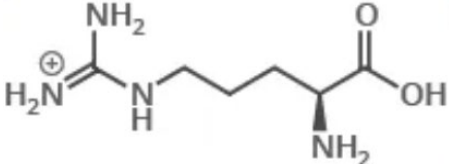


Glycine (Gly, G)			Methionine (Met, M)	
Alanine (Ala, A)			Glutamine (Gln, G)	
Valine (Val, V)			Asparagine (Asn, N)	
Leucine (Leu, L)			Lysine (Lys, K)	
Isoleucine (Ile, I)			Aspartic Acid (Asp, D)	
Serine (Ser, S)			Glutamic Acid (Glu, E)	
Cysteine (Cys, C)			Histidine (His, H)	
Threonine (Thr, T)			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 carbon atom 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 benzene ring with a hydroxyl group (-OH) at the para position. This ring is connected to a side chain that includes a methylene group (-CH₂-), a chiral carbon atom bonded to an amino group (-NH₂) and a carboxylic acid group (-COOH), and another methylene group (-CH₂-). 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. It is shown as a secondary amine with an NH group. Attached to one of the ring carbons is a carboxylic acid group (-COOH). The stereochemistry at the chiral center is indicated with a wedge bond.</p>
Arginine (Arg, R)	 <p>The chemical structure of Arginine consists of a side chain starting with a methylene group (-CH₂-), followed by a nitrogen atom bonded to a carboxylic acid group (-COOH) and a hydrogen atom. This is followed by a three-carbon chain ending in a guanidinium group. The guanidinium group is shown as a carbon atom double-bonded to two nitrogen atoms, one of which is protonated (NH₂⁺). The amino group on the side chain is shown with a wedge bond.</p>