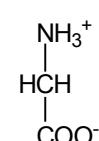


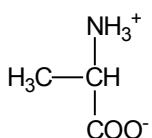
## The amino acids

### hydrophobic amino acids

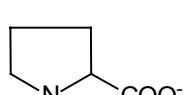
#### small neutral amino acids



glycine (Gly, G)

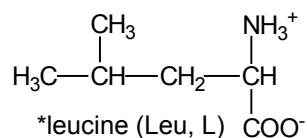


alanine (Ala, A)

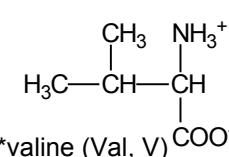


proline (Pro, P)

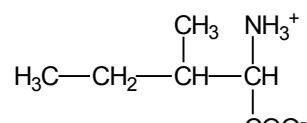
#### large neutral amino acids



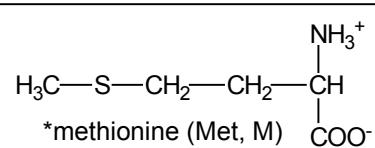
\*leucine (Leu, L)



\*valine (Val, V)

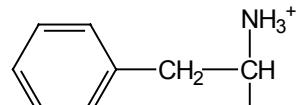


\*isoleucine (Ile, I)  
branched-chain amino acids

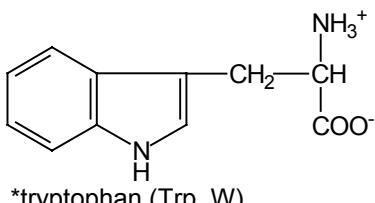


\*methionine (Met, M)

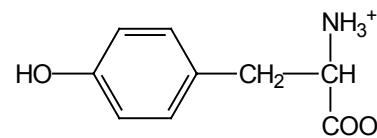
#### aromatic amino acids



\*phenylalanine (Phe, F)



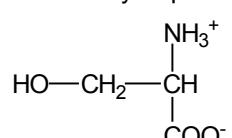
\*tryptophan (Trp, W)



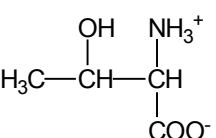
tyrosine (Tyr, Y)

### hydrophilic amino acids

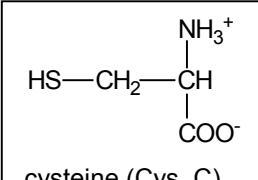
#### neutral hydrophilic amino acids



serine (Ser, S)

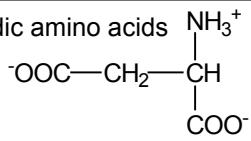


\*threonine (Thr, T)

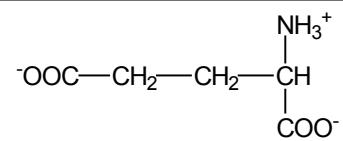


cysteine (Cys, C)

#### acidic amino acids

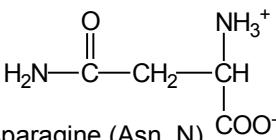


aspartate (Asp, D)

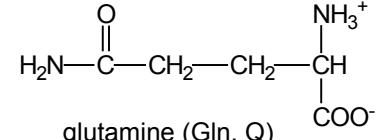


glutamate (Glu, E)

#### amino acid amides

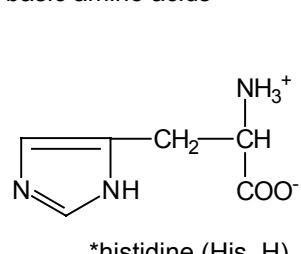


asparagine (Asn, N)

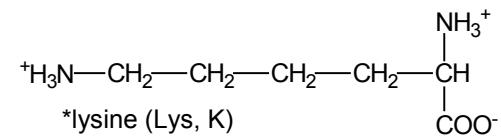


glutamine (Gln, Q)

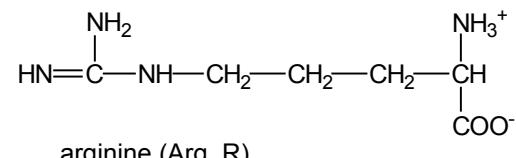
#### basic amino acids



\*histidine (His, H)



\*lysine (Lys, K)



arginine (Arg, R)