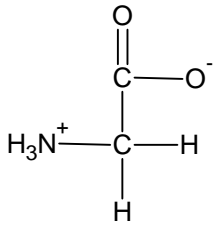


Amino Acids

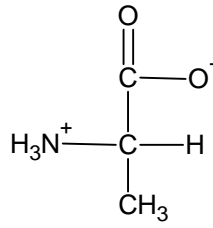
Hydrocarbons

(nonpolar, hydrophobic)

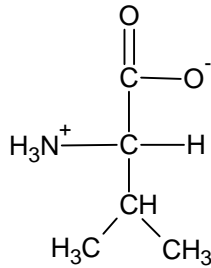


only a.a. with no chiral center

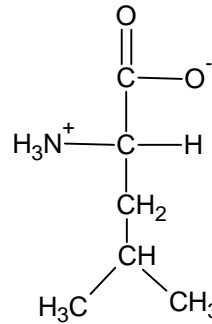
Glycine
(Gly, G)



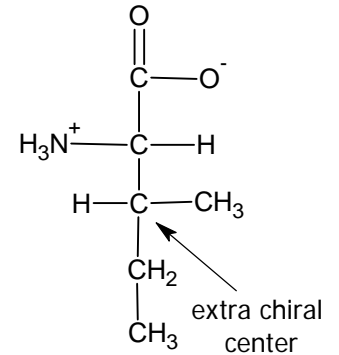
Alanine
(Ala, A)



Valine
(Val, V)

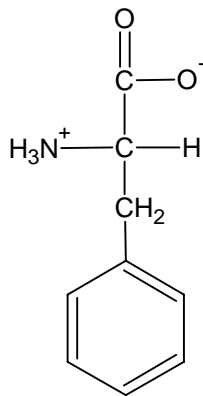


Leucine
(Leu, L)

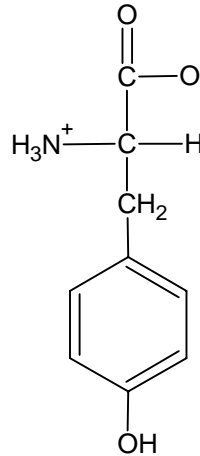


Isoleucine
(Ile, I)

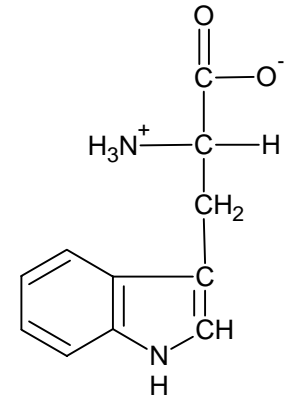
Aromatic



Phenylalanine
(Phe, F)



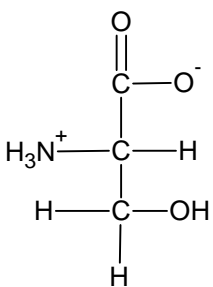
Tyrosine
(Tyr, Y)



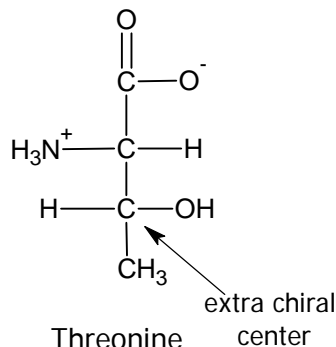
Tryptophan
(Trp, W)

Alcohols

(hydrophilic)

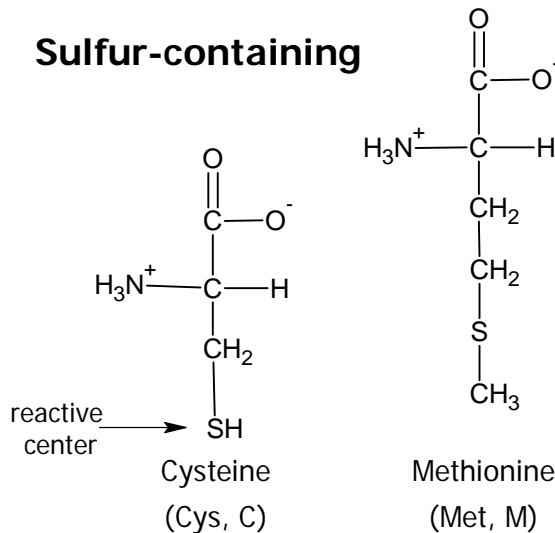


Serine
(Ser, S)

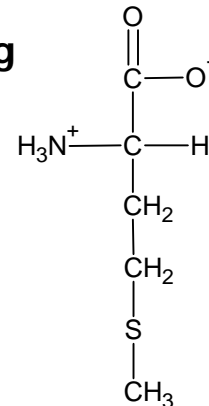


Threonine
(Thr, T)

Sulfur-containing



Cysteine
(Cys, C)

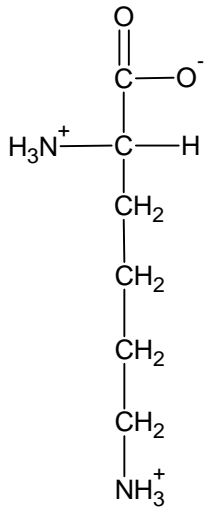


Methionine
(Met, M)

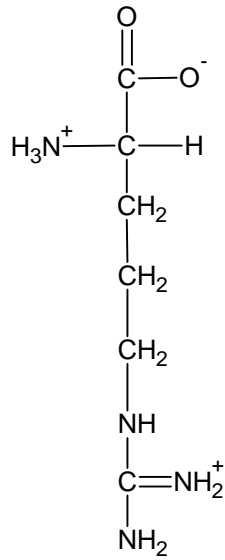
Amino Acids (cont)

Charged

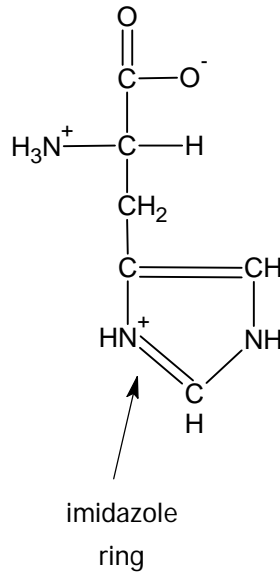
Basic



Lysine
(Lys, K)

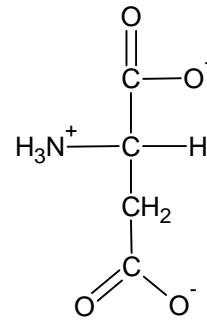


Arginine
(Arg, R)

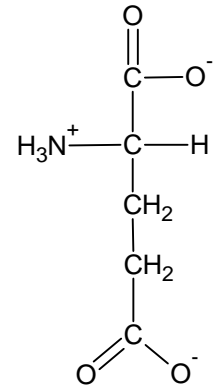


Histidine
(His, H)

Acidic



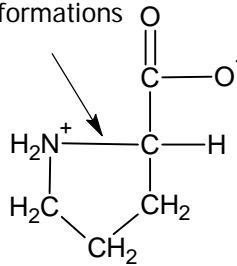
Aspartate
(Asp, D)



Glutamate
(Glu, E)

Imino Acid

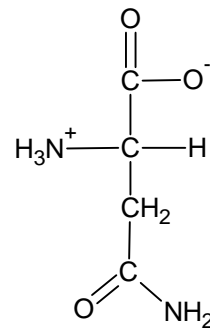
no rotation, hinders
polypeptide conformations



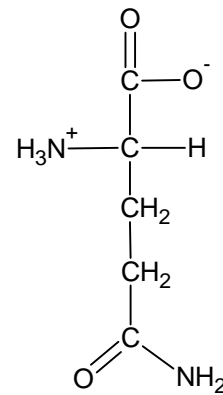
Proline
(Pro, P)

Amides

(polar, not charged)



Asparagine
(Asn, N)



Glutamine
(Gln, Q)