

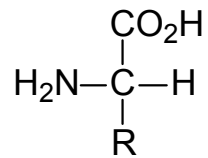
Amino Acids

Functions of Amino Acids

1. Building block of proteins
2. Neurotransmitters
3. Other?

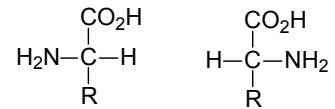
α -Amino Acids

- General structure



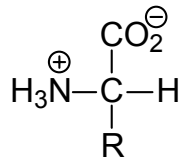
α -Amino Acids

- General structure
- L-isomers



α -Amino Acids

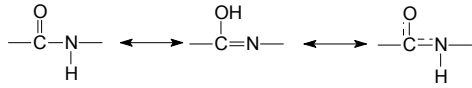
- General structure
 - L-isomers
- Zwitterion- + and -
regions: net charge 0



Amino Acid Properties

Ionic- high mp, \therefore solid at room temp
very water soluble
tidbit: avg mol wt 110

Resonance Makes Peptide Bond Planar



Peptides

- Dipeptide
- Nomenclature

Peptide Chemistry

- peptide bond cleavage
 - acid or base
 - some aa destroyed
- acid-base chemistry- R groups only
 - pK data
 - net charge used
- physiological activity
 - almost unlimited examples