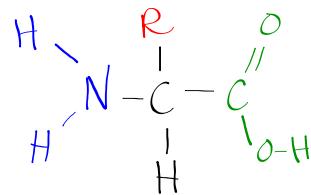


Proteins CHONS

- monomer = amino acid (a.a.)
- 20 different a.a.
- all a.a. have same basic structure



Carbon is bonded to 4 parts

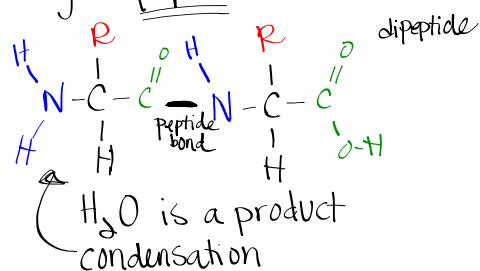
- 1) hydrogen
- 2) amino group (NH_2)
- 3) carboxyl group (COOH)

4) R group

* a.a. differ in their R group

- end in "ine"

- a.a. bond to other a.a. by peptide bonds



- polymer = polypeptide

- proteins differ in the amount of a.a. & order of a.a.

Types of protein - Functions

- defensive protein
ex: antibody: fights off foreign particles
- enzymes: speeds up chemical reactions
- hormonal & regulatory proteins:
help w/ a physiological processes
ex: insulin
- structural
ex: collagen
- transport & storage
ex: hemoglobin

