

Source:#ret #flo

1 | Proteins

1.1 | Structures

- Proteins account for 50% of the dry mass of most cells
- Enzymes are mostly proteins
- Very structurally complex
 - They are constructed from the same 20 sets of amino acids
- A polypeptide is a polymer of amino acids
 - A protein is made up of one or more polypeptides
- A protein must serve a biological function to be a protein
 - It also must be folded and coiled into a specific 3 dimensional structure
- There are many types of proteins
 - Enzymatic proteins
 - Defensive proteins
 - Storage proteins
 - Transport proteins
 - Hormonal proteins
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 - Receptor proteins
 - Response of cell to chemical stimuli
 - Responsible for stuff like detecting signaling molecules released by other nerve cells
 - Contractile and motor proteins
 - Meant for movement
 - Responsible for stuff like flagella
 - Structural proteins
 - They are used as support
 - Keratin is an example

Amino Acids - All amino acids share a common structure - It is an organic molecule with both an amino group and a carboxyl group - An amino group is two Hydrogens bonded with a nitrogen and a carboxyl group is an oxygen double bonded with a carbon and an OH bonded with the same carbon -