

Unit 1: Proteins

Identify the primary elements that make up proteins.

Apply the terms polar and nonpolar to amino acids and proteins.

Draw the basic structure of an amino acid.

Describe how the variety of different amino acids are classified.

Describe the primary structure of proteins including the location and type of bonds that stabilize it.

Describe the secondary structure of proteins including the location and type of bonds that stabilize it.

Describe the tertiary structure of proteins including the location and type of bonds that stabilize it.

Describe the quaternary structure of proteins including the location and type of bonds that stabilize it.

Describe the various functions of proteins and how changes to the primary structure can affect a protein's function.

Explain how a protein can be caused to denature and how such changes affect its structure and function.

Objective 1.1: Identify the primary elements that make up proteins

C, H, O, N, S

Objective 1.2: Apply the terms polar & nonpolar to amino acids & proteins

Both are polar & hydrophilic

Objective 1.3: Draw the basic structure of an amino acid

central carbon, amino group, carboxyl group, R



Objective 1.4: Describe how the variety of different amino acids are classified

Proteins are classified by their side chains

Objective 1.5: Describe the primary structure of proteins including the location & type of bonds that stabilize it

It is how the amino acids joined by peptide bonds

Objective 1.6: Describe the secondary structure of proteins including the location & type of bonds that stabilize it

Refolded, using hydrogen bonds to hold the alpha helix & beta pleated sheet together

Objective 1.7: Describe the tertiary structure of proteins including the location & type of bonds that stabilize it

Folded & all bonds are used

Objective 1.8: Describe the quaternary structure of proteins including the location & type of bonds that stabilize it

completely defined in its shape & multiple disulfide bonds are used

Objective 1.9: Describe the various functions of proteins & how changes in the primary structure can affect a protein's function

Proteins do everything, & in primary structure, if the structure is changed, so could the function & amino acid chains

Objective 1.10: Explain how a protein can be caused to denature & how such changes affect its structure & function

If a protein gets too hot & it unravels, & either can't function correctly or at all

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