

Proteins Quiz PDF

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What type of bond links amino acids together in a protein?

- Hydrogen bond
- Ionic bond
- Peptide bond
- Covalent bond

Which protein is responsible for oxygen transport in the blood?

- Myoglobin
- Hemoglobin
- Albumin
- Ferritin

What is the primary structure of a protein?

- The sequence of amino acids
- The overall 3D shape
- The arrangement of multiple polypeptides
- The formation of alpha helices and beta sheets

Which of the following is a fibrous protein?

- Hemoglobin
- Insulin
- Collagen
- Myoglobin

Which type of protein is primarily involved in catalyzing biochemical reactions?

- Structural proteins
- Enzymes

- Transport proteins
- Hormones

Explain how enzymes, as proteins, lower the activation energy of biochemical reactions.

Which of the following are sources of dietary protein?

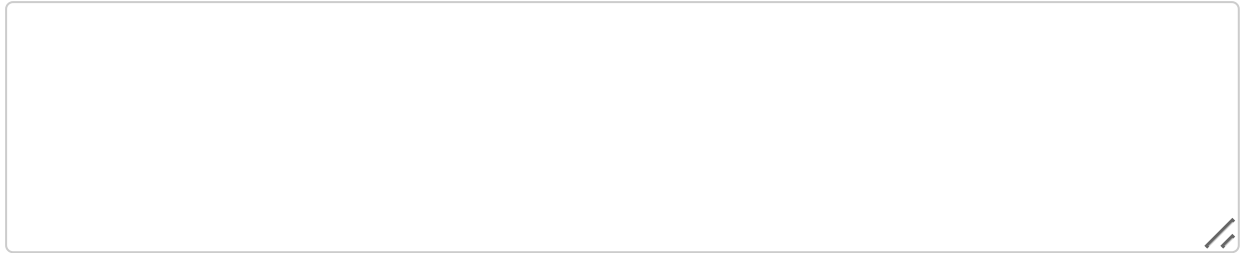
- Meat
- Lentils
- Dairy products
- Fruits

Which proteins are involved in the immune response?

- Antibodies
- Enzymes
- Hormones
- Cytokines

How do post-translational modifications affect protein function? Provide examples.

Describe the role of proteins in maintaining cellular structure and function.



What is the effect of denaturation on a protein?

- It enhances its function
- It changes its amino acid sequence
- It loses its structure and function
- It increases its stability

Which of the following is an essential amino acid?

- Glycine
- Alanine
- Lysine
- Glutamine

What is the role of ribosomes in protein synthesis?

- To store genetic information
- To synthesize proteins
- To transport proteins
- To degrade proteins

Which of the following are levels of protein structure?

- Primary
- Secondary
- Tertiary
- Quaternary

Which functions are performed by proteins in the body?

- Catalyzing reactions
- Providing energy storage
- Transport molecules

- Signaling between cells

Which of the following are methods used to determine protein structure?

- X-ray crystallography
 Mass spectrometry
 NMR spectroscopy
 DNA sequencing

What factors can lead to protein denaturation?

- High temperature
 Extreme pH levels
 High salt concentration
 Presence of enzymes

Explain the process of protein synthesis from DNA transcription to mRNA translation.

Discuss the impact of protein deficiency on human health and name two related disorders.

What is the significance of protein folding, and what are the consequences of misfolding?

