

OUTLINE

MAJOR POINTS:

1. Relationship between protein structure and function, especially those of enzymes
2. Overview of the mechanisms of enzyme inhibition. How does an enzyme become inhibited? How do you test for enzyme inhibition? (rough overview for this one only)
3. Techniques of protein structural characterization: CD spectroscopy, X-ray diffraction, protein NMR, cryo-EM
4. Techniques to support the modeling of protein structural information: Protein sequencing (including peptide MS, Edman degradation, translation from a known mRNA sequence, etc.), Protein size determination (protein mass spectroscopy, size exclusion chromatography, SDS Page)
5. Techniques to evaluate the quality of protein structural models: Ramachandran plot analysis, Rama-Z score
6. Techniques to determine protein affinity: Isothermal titration calorimetry

SUBPOINTS:

1. Knowledge of typical enzymes and substrates; typical enzymatic reactions and pathways coming from previous Biochemistry course
2. Typical negative feedback control of enzymes in metabolic pathways
3. Knowledge of receptors and ligands; no need to delve into G protein signal transduction mechanisms and similar topics
4. General structures of biomolecules (amino acids, carbohydrates, lipids, nucleic acids) - maybe focus on amino acids
5. Structure of proline and glycine

RELATIONSHIP BETWEEN PROTEIN STRUCTURE AND FUNCTION

- A protein's shape determines its function. Proteins are composed of amino acid subunits that form polypeptide chains. **Enzymes catalyze biochemical reactions by speeding up chemical reactions**, and can either break down their substrate or build larger molecules from their substrate.
- Protein is a molecule that can be made of several lengths of a poly-peptide chain, several hundred to several thousand amino acids connected together.

Explanation:

- Within the chain there are the peptide bonds which are covalent ones. Then between the different amino acids are several other types of bonds that can be made leading to the folding of this chain in many different ways. This makes it possible for the protein to get the structure needed for the function. So if we need a flat sheet for a protein to harden in the nail for example, this protein can be made. If we need a globular protein with a dent on the side to make an enzyme, then the amino acids will arrange themselves in such a way and the different types of bonds will hold the shape.

ENZYMES

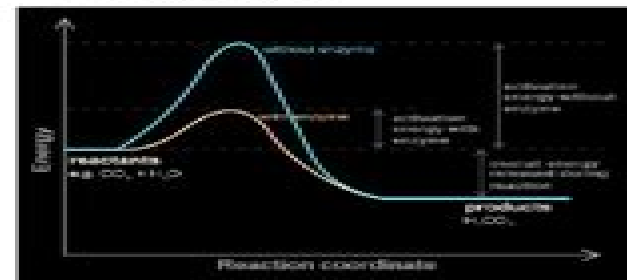
- Enzymes are biological catalysts. These are usually protein but some are RNA.
- Enzymes work by lowering the activation energy of reaction

A. Specific to substrate

- Enzymes catalyze a few, if not single, substrates. These can even distinguish between stereoisomers.

B. Massive output improvement

- Enzymes can increase the rate of uncatalyzed reaction by up to 10^{17}



Enzyme Classification

- Enzymes are classified into six main groups, depending on their function
- Cellulase - breaks down cellulose which is a hydrolase

Names

- Most enzymes are named after their substrate or function and the suffix -ase

A. Oxidoreductase

- Catalyze redox reactions (electron transfer), adds or removes O_2 or H_2

An Introduction To Physical Biochemistry

ML Yell



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