

Activity 42: Introduction to Enzymes

Learning Objectives

Define the terms enzyme, substrate, active site, cofactor and coenzyme

Predict the polarity of the amino acid residues in the active site based on an enzyme's substrate

Estimated Completion Time 30 Minutes

Instructor Information

Basic information regarding the nature of an enzyme's active site.

ANSWERS TO QUESTIONS

1.
 - a. A pocket in an enzyme where the substrate fits and catalysis occurs.
 - b. The reactant
 - c. Assists the enzyme in catalysis
2. All amino acids have polar side chains.
3. Stereoisomerism

Activity 42: Skill Development

1. Tertiary
2. Serine H-bonds to carbonyl; N-H hydrogens bond to O of OH and carboxylate.

