

ACS Biochemistry Final

pKa (chapter 3)

measure of the tendency of a group to give up a proton (acidity); tendency decreases tenfold as pKa increases by one unit

thioester bond (1)

compounds with functional group C-S-CoA-C (eg, in acetyl-CoA)

zwitterion (3)

dipolar ion with both positive and negative groups but overall neutral charge; can act as either an acid or base

Isoelectric point (pI) (chapter 3)

the characteristic pH at which the net electric charge is zero

SDS - Sodium Dodecyl Sulfate (chap 3)

detergent used to unfold proteins and give them uniform negative charge

SDS Page (3)

chromatography used to separate proteins based on mass. light proteins travel fast than heavier ones

PCR - Polymerase chain reaction (3)

copies DNA multiple times to increase sample size

Isoelectric focusing (chapt 3)

procedure used to determine the isoelectric pt (pI) of a protein. Protein migrates through gel until pH = pI (net charge = 0)

Two-Dimensional Electrophoresis (3)

combines isoelectric focusing and SDS electrophoresis; separates proteins by both molecular weight and pI

specific activity (3)

number of enzyme units per mg of total protein (a measure of enzyme purity)

activity (3)

total units of a certain enzyme in a solution

Peptide bonds (chapter 4)

C-N bond with double bond character due to resonance (C-N bond cannot rotate, and is planar)

Edman degradation (3)

used in the sequencing of polypeptides; labels and removes ONLY the amino-residue from a polypeptide. carried out in a machine called a sequenator

ϕ in peptide bonding (chapter 4)

angle around the α -carbon - amide nitrogen bond

ψ in peptide bonding (chapter 4)

angle around the α -carbon - carbonyl carbon bond

Ramachandran Plot (4)

shows favorable ϕ - ψ angle combinations. 3 main "wells" for α -helices, β -sheets, and left handed α -helices

Levinthal's Paradox (4)

Biochemistry Acs Final Study Guide

RM Cervero



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Table of Contents Biochemistry Acs Final Study Guide

1. Understanding the eBook Biochemistry Acs Final Study Guide
 - The Rise of Digital Reading Biochemistry Acs Final Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Biochemistry Acs Final Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biochemistry Acs Final Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biochemistry Acs Final Study Guide
 - Personalized Recommendations
 - Biochemistry Acs Final Study Guide User Reviews and Ratings
 - Biochemistry Acs Final Study Guide and Bestseller Lists

5. Accessing Biochemistry Acs Final Study Guide Free and Paid eBooks
 - Biochemistry Acs Final Study Guide Public Domain eBooks
 - Biochemistry Acs Final Study Guide eBook Subscription Services
 - Biochemistry Acs Final Study Guide Budget-Friendly Options
6. Navigating Biochemistry Acs Final Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Biochemistry Acs Final Study Guide Compatibility with Devices
 - Biochemistry Acs Final Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biochemistry Acs Final Study Guide
 - Highlighting and Note-Taking Biochemistry Acs Final Study Guide
 - Interactive Elements Biochemistry Acs Final Study Guide
8. Staying Engaged with Biochemistry Acs Final Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biochemistry Acs Final Study Guide
9. Balancing eBooks and Physical Books Biochemistry Acs Final Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biochemistry Acs Final Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biochemistry Acs Final Study Guide
 - Setting Reading Goals Biochemistry Acs Final Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biochemistry Acs Final Study Guide
 - Fact-Checking eBook Content of Biochemistry Acs Final Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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