

# 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 (chap 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

$\phi$  in peptide bonding (chapter 4)

angle around the  $\alpha$ -carbon - amide nitrogen bond

$\psi$  in peptide bonding (chapter 4)

angle around the  $\alpha$ -carbon - carbonyl carbon bond

Ramachandran Plot (4)

shows favorable  $\phi$ - $\psi$  angle combinations. 3 main "wells" for  $\alpha$ -helices,  $\beta$ -sheets, and left handed  $\alpha$ -helices

Levinthal's Paradox (4)

# Acs Biochemistry Study Guide

**Michael Brown**

## Acs Biochemistry Study Guide:

**Chemistry and Biochemistry of Food** Jose Perez-Castineira,2020-09-07 This book provides an excellent platform for understanding the chemical processes involved in food transformation Starting with the examination of major food components such as water carbohydrates lipids proteins and minerals the author further introduces the biochemistry of digestion and energy metabolism of food ingredients The last section of the book is devoted to modern food technologies and their future perspectives

**ACS Organic Chemistry** Sterling Test Prep,Frank Addivinola,2023-01-02 ASC Organic Chemistry bestseller Practice questions and detailed explanations for topics tested on ACS Organic Chemistry examination Thousands

of students use Sterling Test Prep to achieve high test scores

**Computational Drug Discovery and Design** Mohini Gore,Umesh B. Jagtap,2023-09-07 This second edition provides new and updated methods and techniques for identification of drug target binding sites prediction high throughput virtual screening lead discovery and optimization conformational sampling prediction of pharmacokinetic properties using computer based methodologies Chapters also focus on the application of the latest artificial intelligence technologies for computer aided drug discovery Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary methods includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Computational Drug Discovery and Design Second Edition aims to effectively utilize computational methodologies in discovery and design of novel drugs

**The Pharmacology of Kratom and Its Alkaloids** Oliver Grundmann,Christopher Robert McCurdy,Darshan Singh Darshan Singh,Kirsten Elin Smith,Marc T. Swogger,2022-03-28

**Guide to the Literature of the Medical Sciences** Columbia University. School of Library Service,1960 **ACS**  
Directory of Graduate Research 1993 American Chemical Society. Committee on Professional Training,1993 **Subject**  
Guide to Books in Print ,2001 **Advances in Protein Molecular and Structural Biology Methods** Timir Tripathi,Vikash Kumar Dubey,2022-01-14 Advances in Protein Molecular and Structural Biology Methods offers a complete overview of the latest tools and methods applicable to the study of proteins at the molecular and structural level The book begins with sections exploring tools to optimize recombinant protein expression and biophysical techniques such as fluorescence spectroscopy NMR mass spectrometry cryo electron microscopy and X ray crystallography It then moves towards computational approaches considering structural bioinformatics molecular dynamics simulations and deep machine learning technologies The book also covers methods applied to intrinsically disordered proteins IDPs followed by chapters on protein interaction networks protein function and protein design and engineering It provides researchers with an extensive toolkit of methods and techniques to draw from when conducting their own experimental work taking them from foundational concepts to practical application Presents a thorough overview of the latest and emerging methods and technologies for protein study Explores biophysical techniques including nuclear magnetic resonance X ray crystallography and cryo electron microscopy

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