

Biochemistry ACS Study Guide

What are Nucleotides?

Nucleotides are the monomer unit for nucleic acids and are *composed of nitrogenous base, 5-carbon sugar and a phosphate group.*

Nucleic acids are biopolymers of: nucleotide monomers

- DNA (MORE STABLE): carrier of genetic information; double-stranded
 - RNA (LESS STABLE) : intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded (usually).
 - Types of RNA:
 - tRNA: transfer RNA, holds amino acids used in protein synthesis, remember WOBBLE POSITION(Inosine)!
 - rRNA: ribosomal RNA, part of the ribosome
 - siRNA: small interfering RNA, short term silencing of pleiotrophin coding genes, targets mRNA for degradation
 - miRNA: micro RNA, silencing and post-transcriptional regulation of gene expression.
- etc. serve a wide array of different purposes (esp. Compared to DNA). Can also catalyze reactions (Ribozyme).

Nitrogenous Bases:

Use resonance to help to differentiate between all four: If needed nitrogen will donate!

- Purines (2 rings: pyrimidine and imidazole) - Adenine, Guanine are purines derivatives in nucleic acid

Purines



- Pyrimidines (one ring) - Cytosine, Thymine, and Uracil (in RNA only) are pyrimidine derivatives in nucleic acid



- A-T/U bond has 2 H-bonds
- G- C bond has 3 H-bonds

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Table of Contents Acs Biochemistry Test Study Guide

1. Understanding the eBook Acs Biochemistry Test Study Guide
 - The Rise of Digital Reading Acs Biochemistry Test Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Acs Biochemistry Test 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 Acs Biochemistry Test Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Acs Biochemistry Test Study Guide
 - Personalized Recommendations
 - Acs Biochemistry Test Study Guide User Reviews and Ratings
 - Acs Biochemistry Test Study Guide and Bestseller Lists

5. Accessing Acs Biochemistry Test Study Guide Free and Paid eBooks
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Acs Biochemistry Test Study Guide
9. Balancing eBooks and Physical Books Acs Biochemistry Test Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Acs Biochemistry Test Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Acs Biochemistry Test Study Guide
 - Setting Reading Goals Acs Biochemistry Test Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Acs Biochemistry Test Study Guide
 - Fact-Checking eBook Content of Acs Biochemistry Test 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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