

Lehninger Biochemistry Chapter 3

Exam With Complete Solutions

The chirality of an amino acid results from the fact that its α carbon:

- A) has no net charge.
- B) is a carboxylic acid.
- C) is bonded to four different chemical groups.
- D) is in the L absolute configuration in naturally occurring proteins.
- E) is symmetric. - Answer C) is bonded to four different chemical groups.

Of the 20 standard amino acids, only _____ is not optically active. The reason is that its side chain _____.

- A) alanine; is a simple methyl group
- B) glycine; is a hydrogen atom
- C) glycine; is unbranched
- D) lysine; contains only nitrogen
- E) proline; forms a covalent bond with the amino group - Answer B) glycine; is a hydrogen atom

Two amino acids of the standard 20 contain sulfur atoms. They are:

- A) cysteine and serine.
- B) cysteine and threonine.
- C) methionine and cysteine
- D) methionine and serine
- E) threonine and serine. - Answer C) methionine and cysteine

All of the amino acids that are found in proteins, except for proline, contain a(n):

- A) amino group.
- B) carbonyl group.
- C) carboxyl group.
- D) ester group.
- E) thiol group. - Answer A) amino group.

Which of the following statements about aromatic amino acids is correct?

- A) All are strongly hydrophilic.
- B) Histidine's ring structure results in its being categorized as aromatic or basic, depending on pH.
- C) On a molar basis, tryptophan absorbs more ultraviolet light than tyrosine.
- D) The major contribution to the characteristic absorption of light at 280 nm by proteins is the phenylalanine R group.

Lehninger Chapter 21 Solutions

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Smith, Colin Ralston Paterson**



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Lehninger Principles of Biochemistry David L. Nelson, Albert L. Lehninger, Michael M. Cox, 2008-02 Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom introducing exciting new developments while communicating basic principles of biochemistry *Lehninger Principles of Biochemistry* Albert L. Lehninger, David L. Nelson, Michael M. Cox, 2005 CD ROM includes animations living graphs biochemistry in 3D structure tutorials

Heterocycles in Life and Society Alexander F. Pozharskii, Anatoly T. Soldatenkov, Alan R. Katritzky, 2011-03-31 Heterocycles in Life and Society is an introduction to the chemistry of heterocyclic compounds focusing on their origin and occurrence in nature biochemical significance and wide range of applications Written in a readable and accessible style the book takes a multidisciplinary approach to this extremely important area of organic chemistry Topics covered include an introduction to the structure and properties of heterocycles the key role of heterocycles in important life processes such as the transfer of hereditary information how enzymes function the storage and transport of bioenergy and photosynthesis applications of heterocycles in medicine agriculture and industry heterocycles in supramolecular chemistry the origin of heterocycles on primordial Earth and how heterocycles can help us solve 21st century challenges For this second edition Heterocycles in Life and Society has been completely revised and expanded drawing on a decade of innovation in heterocyclic chemistry The new edition includes discussions of the role of heterocycles in nanochemistry green chemistry combinatorial chemistry molecular devices and sensors and supramolecular chemistry Impressive achievements include the creation of various molecular devices the recording and storage of information the preparation of new organic conductors and new effective drugs and pesticides with heterocyclic structures Much new light has been thrown on various life processes while the chemistry of heterocycles has expanded to include new types of heterocyclic structures and reactions and the use of heterocyclic molecules as ionic liquids and proton sponges Heterocycles in Life and Society is an essential guide to this important field for students and researchers in chemistry biochemistry and drug discovery and scientists at all levels wishing to expand their scientific horizon **Fat-Soluble Vitamins** Peter J. Quinn, Valerian E. Kagan, 1998-09-30 The subject for a volume on the fat soluble vitamins needs no justification considering the importance of this group of nutrients and the rate of expansion of our knowledge of its role in cell biology genetics and disease The level of our understanding has clearly moved from knowing what fat soluble vitamins do to how they perform their functions Hand in hand with a knowledge of their molecular mechanisms of action is the recognition that vitamins are used sparingly and regeneration processes operate in certain cases to recycle vitamins from their metabolites We have divided the volume into alphabetical sections beginning with vitamin A and the carotenoids through vitamins D E F and K and ending with coenzyme Q The contributors are all acknowledged experts in their particular fields and have made significant contributions to published research results All have worked assiduously to deliver the product of their labors on a restricted time scale and to provide the most up to

date information on their respective topics We are truly grateful for their indulgence

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