

Chapter 10 Study Guide Chem 117

1. *Discovering the Concepts: Exploring Amino Acids*

10.1 Amino Acids—The Building Blocks

- proteins are polymers composed of building blocks called amino acids
- the order of the amino acids in a protein determines its structure and biological function
- amino indicates a protonated amine ($-\text{NH}_3^+$)
- acid indicates a carboxylate, which is the conjugate base of a carboxylic acid ($-\text{COO}^-$)
- groups are bonded to a central alpha carbon or alpha amino

2. *Discovering the Concepts: Condensation and the Peptide Bond*

- the carboxylate ion of one amino acid molecule reacts with the protonated amine of a second amino acid
- a water molecule is removed and an amide functional group is formed
- when amino acids combine, the amide bond that forms is called a peptide bond

3. Draw the general structure of an amino acid.



4. Identify amino acids by the one-letter and three-letter abbreviations.

Amino Acid	Three-Letter Code	One-Letter Code	Rationale for One-Letter Code
Cysteine	Cys	C	Only amino acid that starts with the letter
Histidine	His	H	
Isoleucine	Ile	I	
Methionine	Met	M	
Serine	Ser	S	
Valine	Val	V	Most common amino acid that starts with the letter
Alanine	Ala	A	
Glycine	Gly	G	
Leucine	Leu	L	
Proline	Pro	P	
Threonine	Thr	T	

5. Identify amino acids based on their polarity, (nonpolar vs polar, hydrophobic vs hydrophilic) be able to recognize what makes a molecule polar vs nonpolar which are neutral?

- The properties of the functional groups allow them to be classified as nonpolar and polar. Polar amino acids are further classified as neutral, acidic, or basic. With few exceptions,

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