Protein  
   
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Proteins are large biomolecules and macromolecules that comprise one or more long chains of amino  
acid residues. Proteins perform a vast array of functions within organisms, including catalysing  
metabolic reactions, DNA replication, responding to stimuli, providing structure to cells and organisms,  
and transporting molecules from one location to another. Proteins differ from one another primarily in  
their sequence of amino acids, which is dictated by the nucleotide sequence of