

Review Questions Why begin the course with he tudy of proteins?

How can proteins passes such a wide you evor functions?

How car a polypeptide be both right and texible at the same time?

What are the 5 charged AAs names, symbols, charges, structures, and additional information? What are the 4 polar AAs names, symbols, charges, structures, and additional information? What are the 11 nonpolar AAs names, symbols, charges, structures and additional information? What is the acronym for nonpolar AAs?

List the noted information for collagen.

What is the structure of an AA?

Is the peptide backbone polar or nonpolar?

How can you hide the polar backbone from nonpolar groups in the hydrophobic core?

What are the differences between alpha helices and beta sheets?

How can beta sheets be oriented relative to each other? What does this mean energetically? What is a loop and are there different kinds?

Why can't you use a hairpin turn to connect two adjacent parallel beta strands?

How can you determine the direction of the polypeptide by its structure?

What is a motif and give some examples.

What is a domain?