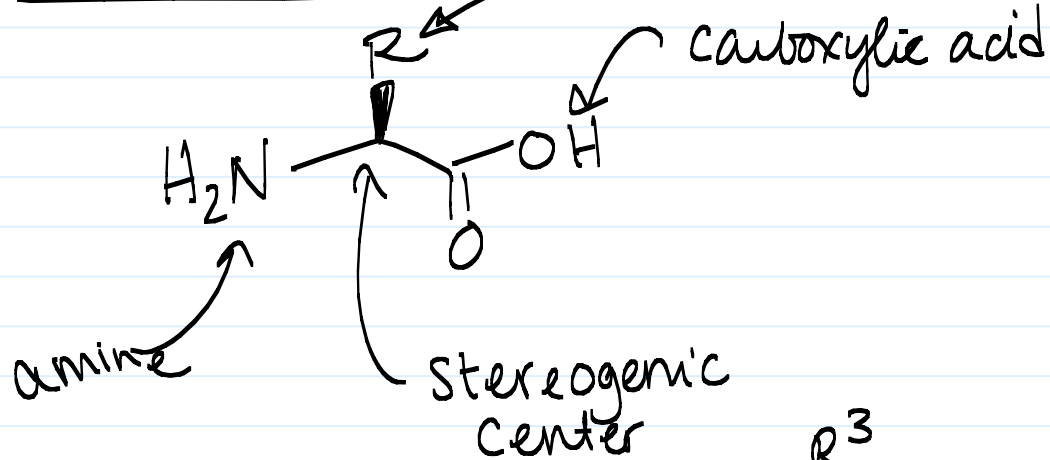


Amino Acids, Peptides, Proteins, Nucleic Acids (Ch. 23)

Note Title

5/13/2014

Amino Acids

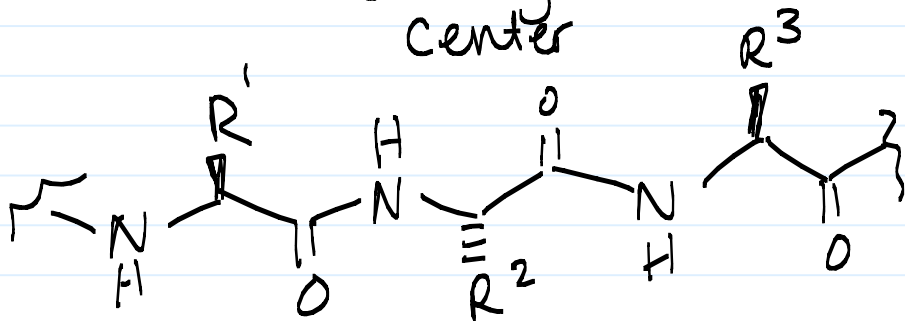


- 20 common, naturally occurring amino acids

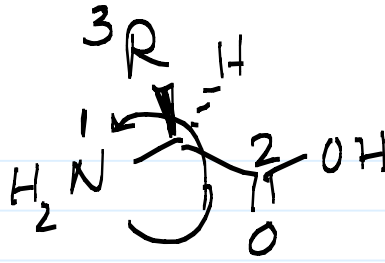
$\text{R} = 20$ different side chains

Peptides: Polymer $\leq \sim 30$ amino acids

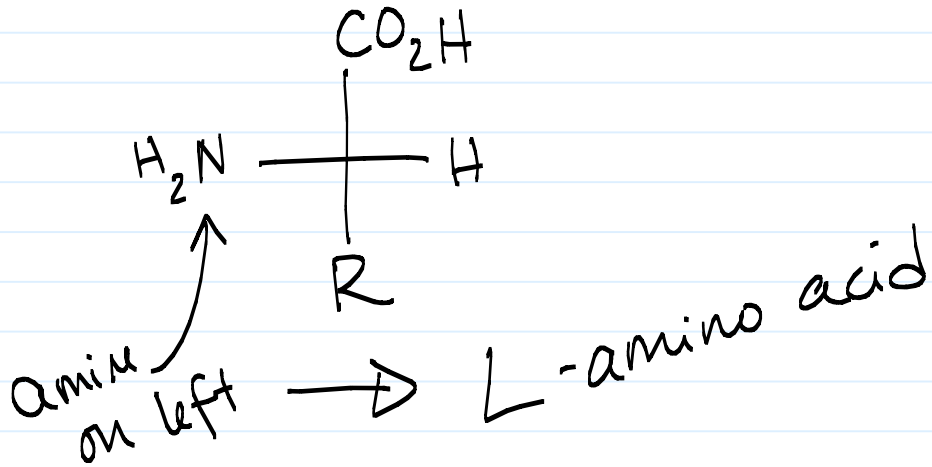
Protein: Polymer $\geq \sim 30$ amino acids



Stereochemistry



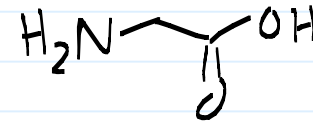
Fisher Projection:



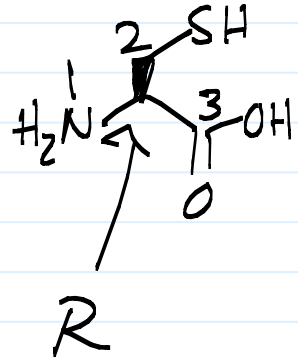
S-configuration

↳ True of all but 2 amino acids.

exceptions:

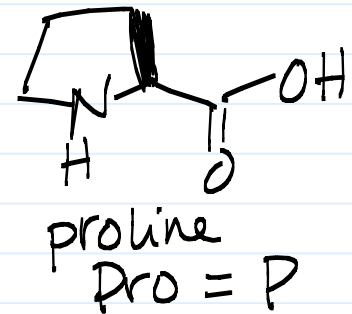
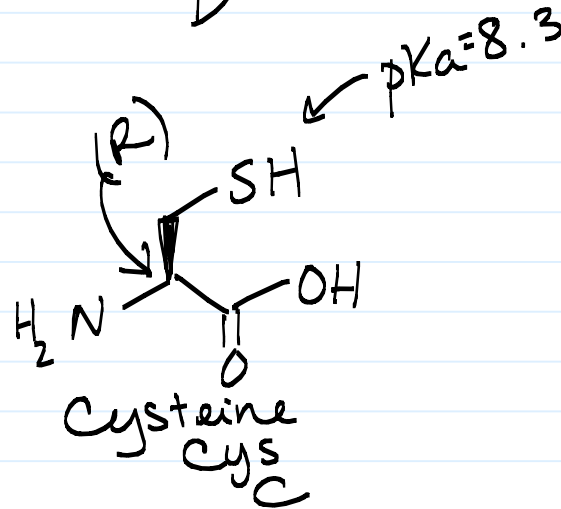
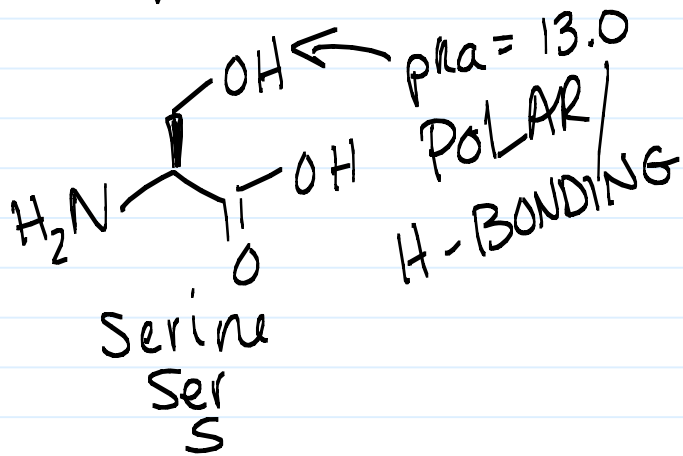
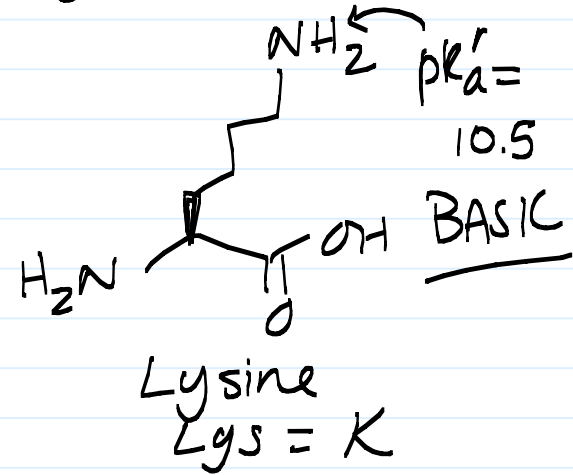
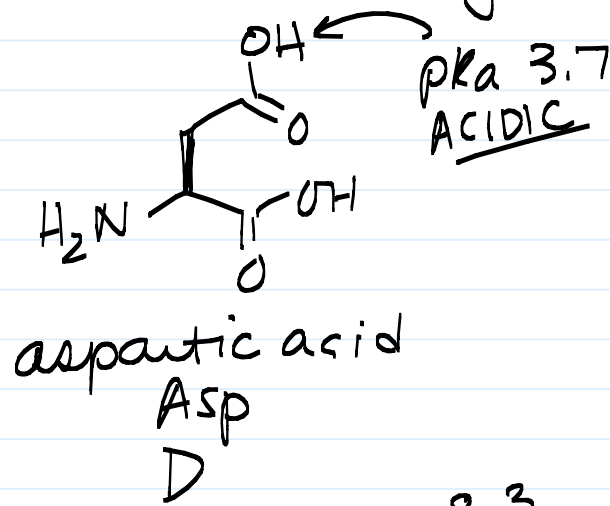
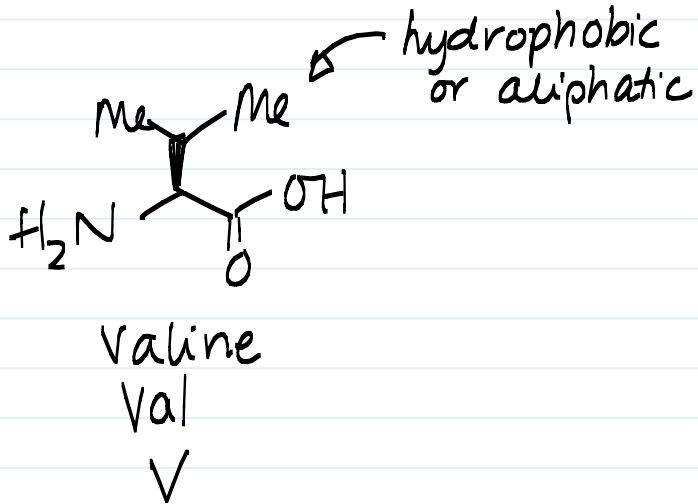


glycine



20 Natural, Common Amino Acids:

- Essential Amino Acids = the ones your body can't make.



Protonation States vs. pH

