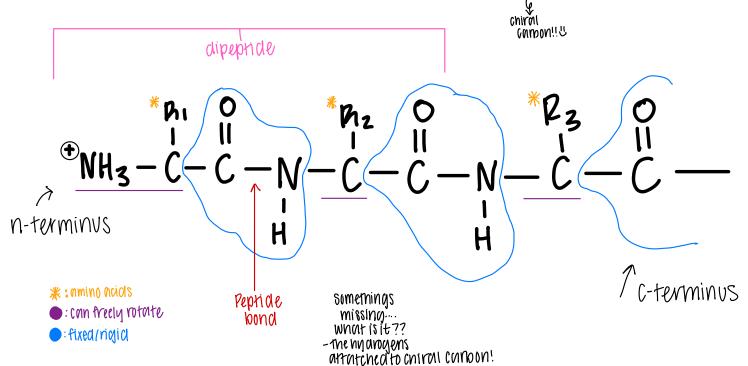
Session 5

09/17

1. Label the following on the image below: Peptide bond, Dipeptide, Amino Acid(s), Peptide Backbone, C-Terminus, and N-Terminus. Also, circle the groups that are "fixed/rigid" and which can freely rotate? Why are these groups able to rotate?



2. What amino acid is special in regard to the rules above? Why is it special and is its "nickname"?

Proline!!

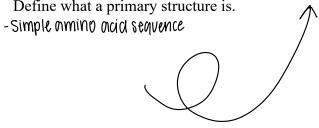
- its CHz group bonds to the pepticle backbone twice! its now "locked" into place.
- "The destroyer of secondary structures
- 3. Provide the name of the following image using its full name, their 3 letter codes, and their 1 letter codes.

4. Draw the following amino acid sequence. Give it it's additional names.

TLPS

Thr Lev Proser mreonyllevcylprolylSerine

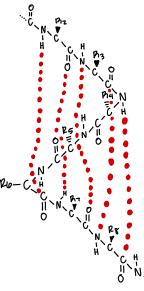
5. Define what a primary structure is.



6. Define what a secondary structure is. Give examples learned in class.

- Hydrogen bonds between <u>> n-H and > c=0</u> at peptial backbone on same polypeptide

naipha helix



2) beta pleated sneets

- 7. What interactions are present in a secondary structure?
 - -Hydrogen Bonding