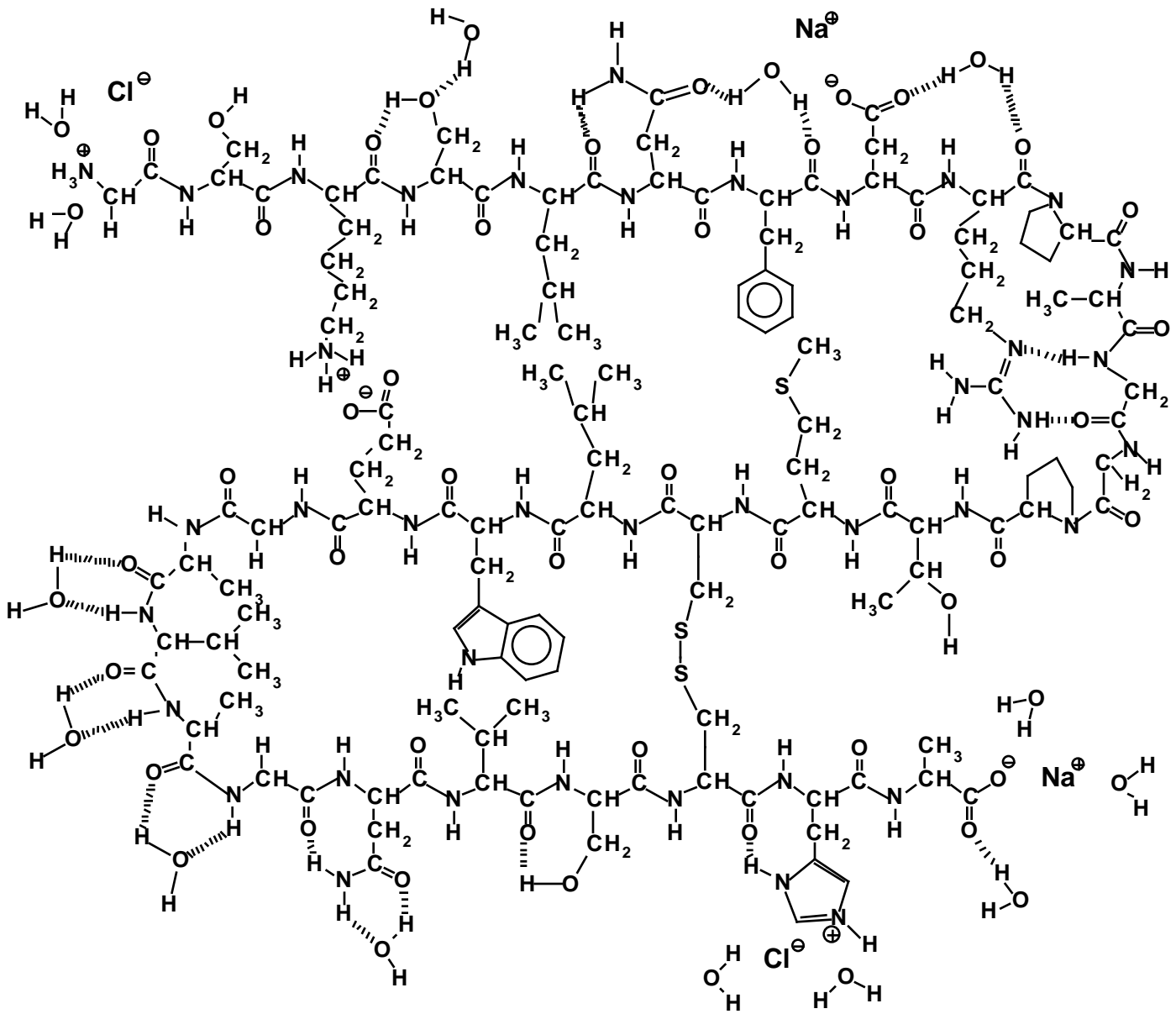


NONCOVALENT INTERACTIONS STABILIZING PROTEIN STRUCTURE (SIDE GROUPS)



Van der Waals Interactions

Hydrophobic Interactions

Ion-Ion Interactions

Hydrogen Bonding

Disulfide Bonds

- 1) How many amino acids are in this peptide?
- 2) Which amino acid is at residue #5? #6? #15? #17? #20? #28? #30?
- 3) Which residues show hydrogen bonding with water? with the amide of the backbone?
- 4) Which 2 residues are interacting by ion-ion attraction? van der Waals attraction? disulfide bond?
Which residues show ion attractions with sodium ion? with chloride ion?
- 5) Which residues are found in the loop regions #10 - #14 and #21 - #25? What amino acid side group classes are the residues #15 - #20?