

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

Study Questions

Biophysical Chemistry/Molecular Biophysics Wintersemester 2020/2021

Preparation for Lecture 6

Department Chemie Prof. Don Lamb. PhD

Reading:

Voet, Voet, Pratt, Fundamentals of Biochemistry Sections 6-4, 6-5A&B (Protein Stability and Protein Folding) Pages 156-163

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Copies of the selected pages are available in the library or on moodle.lmu.de
Questions: 1) What is Levinthal's paradox and how can it be resolved?
2) What are the forces that stabilize protein structure?
3) What effects destabilize protein structure?
4) Would you expect a globular protein to have more or less polar residues compared to a fibrous protein of the same molecular weight? Why?
compared to a horous protein or the same molecular weight? Why?