Structural Bioinformatics 2003-04 Semester B Assignment 1.

Feb 22

Investigate protein with PDB code 1dol.

- 1. Classify the protein according to SCOP database.
- 2. Write a protein diagram of the secondary structure elements. For example: 10-loop-20-helix-30-loop-35-strand-45-loop-50
- 3. In addition provide the lengths (in Angstroms) of alpha helices and beta-strands.
- 4. Draw a diagram of the beta-sheet topology.
- 5. Draw *aspartic* amino acid with residue id 54. Specify its atoms. Which atoms belong to the backbone chain and which atoms belong to the side chain?

Rasmol installed on Linux:

/home/silly6/mol/utils/Rasmol/rasmol_16BIT /home/silly6/mol/utils/Rasmol/rasmol_32BIT

Links:

http://www.umass.edu/microbio/rasmol/distrib/rasman.htm http://www.umass.edu/microbio/rasmol/seleccmd.htm