Structural Bioinformatics 2003-04 Semester B Assignment 1.

Mar 2
1 point.

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?

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