

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan penelitian simulasi dinamika molekul bentuk apo protein *macrophage infectivity potentiator* dengan struktur awal 1FD9 telah diperoleh hasil data sehingga dapat ditarik kesimpulan yaitu:

1. Simulasi dinamika molekul selama 40 ns menghasilkan perhitungan nilai rata-rata RMSD pada waktu 0-10 ns, 10-20 ns, dan 20-40 ns memiliki nilai rata-rata 0,1763 nm, 0,2297 nm dan 0,2388 nm.
2. Terdapat 6 residu dari struktur protein Mip yang memiliki sifat dinamika yang tinggi yaitu F77, Q81, V82, Y109, P117, dan I118 dengan nilai RMSF yaitu 0,1255 nm.
3. Ikatan hidrogen antara atom T123-E122 dan S105-N121 pada Mip kompleks yang dapat dipertahankan.

5.2 Saran

Penelitian ini dapat dilanjutkan dengan simulasi dinamika molekul protein Mip dengan PDB lain.

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